25 CENTS
AMERI
IFLEMAN
AUGUST 1946
St. Louis Public Library,
Olive, 13th & 14th Sts.,
St. Louis 3, Mo.
Reference Dept.
7TH FLR

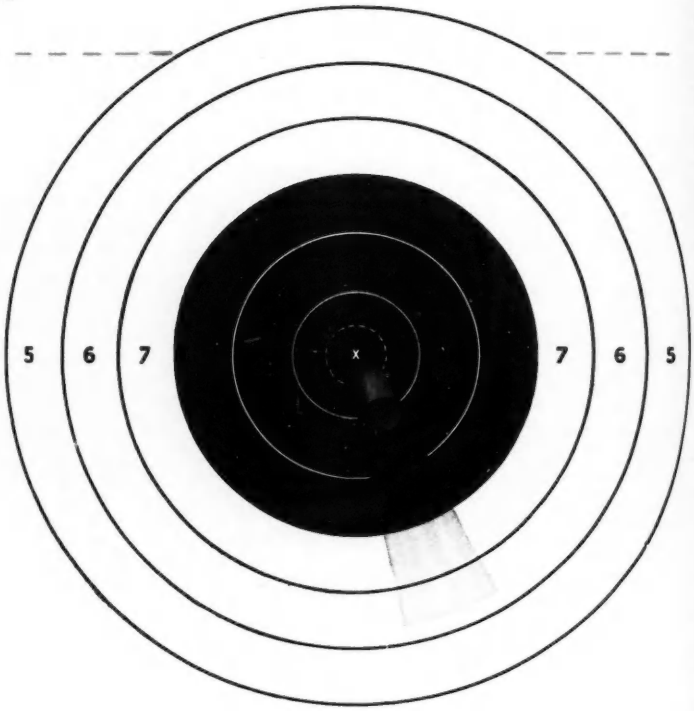
"There is no more accurate rim-fire ammunition in the world than Peters match 22s!"

says **'DOC' PETERS**

HIGH SCORES start in Peters research laboratories. Here experts constantly study the making of better, more accurate match ammunition!

BULLET UNIFORMITY is the result of Peters micro-studies. Perfect bullets that "gear" perfectly with rifling are assured!

CONSTANT PETERS TESTS mean uniform tensile strength of cases, uniform crimping, easy ejection, uniform bullet velocity!



X's ARE A HABIT with Peters Police Match* and Dewar Match* precision-powered ammunition! An exact measure of powder . . . uniform crimping . . . speed-intensity ignition . . . and a perfectly balanced bullet give each cartridge *accuracy you can depend on!* When match ammunition is available again, specify PETERS match 22s for *maximum accuracy in any make of gun!*

*REG. TRADE MARK

PETERS **Rifle and Pistol Ammunition**

DU PONT **PETERS CARTRIDGE DIVISION** • *Remington Arms Company, Inc., Bridgeport 2, Conn.*

IF IT DOESN'T SAY

RAY-BAN

IT ISN'T GENUINE

The tremendous popularity of Ray-Ban Sun Glasses has resulted in many imitations—some that "look like" Ray-Ban, none whose scientific optical performance matches Ray-Ban. To identify genuine Ray-Ban look for the tiny "Ray-Ban" on top of the bridge.

There is no glare conditioning to compare with the comfort and scientific protection of genuine Bausch & Lomb Ray-Ban Sun Glasses.

Cool, comfortable, safe vision, even in brightest sunlight is provided by Ray-Ban. Preferred by airline pilots, championship shooters, and outdoor lovers, Ray-Ban became the first choice glare protection of Army and Navy fliers. Now Ray-Bans, in limited quantities, are being delivered.

Ray-Ban lenses in your prescription are available through regular optical channels.

BAUSCH & LOMB

ESTABLISHED 1853

B&L

MAKERS OF BAUSCH & LOMB BINOCULARS AND SPOTTING SCOPES

THE TEXAN

It's New

Sight To The Future With The Sight Of The Future

PREFERENCE

PRECISION

PERFECTION

Maximum Field of Vision
Greater Visibility
Positive Adjustments
Hard Coated Lenses
Extremely Light Weight

The TEXAN
Mounted With
The STITH Mount

You, Too, will enjoy your rifle more with a Norman-Ford Telescopic sight

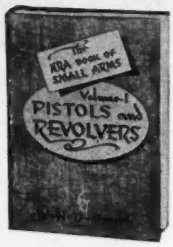
It's New—The Texan represents the best that money can buy. In preference, precision, perfection, and performance, it is **the** hunting and marksmanship scope. Maximum field of vision, and hard coated lenses, plus positive internal windage and elevation adjustments makes it the superior scope of today and tomorrow.

• **THE TEXAN SCOPE. $43.50** •
Now on sale at outstanding sporting goods stores throughout the country.

For folder describing The Texas—Write Norman-Ford, Tyler, Texas

PERFORMANCE

NORMAN-FORD
MANUFACTURERS OF THE WORLD'S SUPERIOR RIFLE SIGHTS



LIMITED FIRST EDITION

POSTPAID $10.00

You can still purchase a copy of the *First Edition* of the new *N.R.A. Book of Pistols and Revolvers* by W. H. B. Smith. Over 5,000 copies have been sold, but only a few First Edition Volumes are left and continued paper shortages make it impossible to get additional copies printed promptly. Order your copy today under our "money's worth or money back guarantee." 600 pages, 300 illustrations.

MORE SELECTED READING

Fast & Fancy Revolver Shooting—Reprint Edition—McGivern	$5.00
Gunsmith's Manual—Steele-Harrison	4.00
Handloader's Manual—Naramore	3.50
Muzzle Flashes—Lenz	15.00
Small Arms Design—Whelen	6.00
Pistol & Revolver Shooting—Roper	2.50
Military & Sporting Rifle Shooting—Crossman	4.50
Modern Gunsmithing—Baker	4.50
Our Rifles—Sawyer	4.00
S & W Handguns—Roper	7.50
Telescopic Rifle Sights—Whelen	2.00
The Modern Gunsmith, 2 vol.—Howe	15.00
Textbook of Pistols and Revolvers—Hatcher	4.25
Textbook of Firearm Identification—Hatcher	7.50
Textbook of Automatic Pistols—Wilson	6.00
Thermodynamics of Firearms—Robinson	2.50
Principles of Firearms—Balleisen	2.50
A Basic Manual of Military Small Arms—New Enlarged Edition—Smith	5.00
Hand Cannon to Automatic—Logan	5.00
Advanced Gunsmithing—Vickery	4.00
Automatic Pistol Marksmanship—Reich'bch	1.50
Ammunition—Johnson-Haven	5.00
Automatic Weapons of the World—Johnson-Haven	7.50
Big Game Rifles and Cartridges—Keith	2.00
Big Game Hunting and Marksmanship—Lee	2.00
Book of the Springfield—Crossman	4.00
The Bullet's Flight—Mann	6.00
A Rifleman Went to War—McBride	3.50
Ducks, Geese & Swans of North America—Kortright	4.50
Elementary Gunsmithing—Frazier	2.00
English Pistols & Revolvers—George	4.00
Explosions, Their Anatomy and Destructiveness—Robinson	1.50
Gun Collecting—Chapel	3.00
Smith & Wesson Handguns—Roper	7.50

You'll want to read—

$2.00 WALTHER PISTOLS by W. H. B. Smith

This authoritative book covers the **entire** Walther line—the P38 and 16 other famous models. Complete data on their ammunition, safety precautions and history, plus "how to" instructions on disassembling and assembling.

NATIONAL RIFLE ASSOCIATION
1600 Rhode Island Avenue Washington 6, D. C.

THREE GREAT GUNS

for your shooting pleasure

THE NEW SMITH & WESSON
K-22, K-32 and K-38
MASTERPIECES

The first S&W Masterpiece—the K-22 introduced in 1940—was sensational. Thousands of shooters endorsed its advanced features—acclaimed it as the gun they had been waiting for. Then the war halted production.

Now Smith & Wesson has designed a complete line of Masterpieces—in 22, 32 and 38 S&W Special Caliber—a matched set of companion guns, even finer than the 1940 K-22 Masterpiece.

In each of these great guns you get . . .

THE NEW S&W "HIGH-SPEED" HAMMER

A HEAVIER BARREL WITH FULL-LENGTH RIB

AN IMPROVED ANTI-BACKLASH TRIGGER FEATURE

REDESIGNED SHORT "SPEED" COCKING ACTION

THE S&W MICROMETER CLICK SIGHT

Because production will not catch up with demand for some time to come, we suggest that if you want a new K-22, K-32 or K-38 you ask your dealer to put your name on his waiting list today.

Smith & Wesson *The Thoroughbred of the Handgun World*

SPRINGFIELD 2, MASSACHUSETTS

Thurman Randle, nationally known rifleman, snapped in action by A. L. Degroodt

Why Expert Riflemen depend on the ARGUS SPOTTING SCOPE

THURMAN RANDLE, whose picture appears above, writes: "I can truthfully say the Argus is the finest spotting scope I have ever used." Riflemen will remember that at the Magic Empire Shoot in Tulsa, recently, Mr. Randle added to his long list of honors by winning the 100 yard iron sight, and the Grand Aggregate.

"FIRST GRADE IN EVERY DETAIL," says Elmer Keith of North Fork, Idaho. "I consider the Argus Super Grade Spotting Scope the finest I have ever owned," Mr. Keith writes. "It has given excellent service when targeting rifles and testing ammunition. In the 1940 National 30 Calibre Matches I used it throughout the Individual and National team matches, while shooting on the Idaho Civilian Team."

Note These 4 Basic Advantages

1. **COATED LENS to give you sharp clear image even in poor light.**
2. **QUICK and easy to focus to save precious seconds.**
3. **SPECIAL EYEPIECE to permit use with glasses and goggles.**
4. **LIGHTNESS (only 2 pounds) for easy packing.**

On sale at such representative stores as Carson Pirie Scott, Chicago; Iver Johnson Sporting Goods Company, Boston; Williams, Brown & Earle, Philadelphia.

Write for new descriptive folder to Dept. AR, Argus, Inc., Ann Arbor, Mich.

argus
ANN ARBOR, MICH.

C. B. LISTER, *Editor*
W. F. SHADEL, *Managing Editor*
Associate Editors
JOHN SCOFIELD R. J. STANN
J. S. HATCHER, *Technical Editor*
L. Q. BRADLEY, *Circulation*
F. A. MOULTON, *Advertising*
J. A. HARPER, *News*
J. T. BERRYMAN, *Art*

From the Editor:

This month we'd like to talk about circulation. The figures, since the first of the year, have surprised us each month. . . . this month, more than ever, for we usually can expect a tapering off during the summer. Our peak season for new members and renewals is usually the late fall and winter. Magazines, generally, have all experienced a sharp upward trend in circulation. What's significant in the case of THE AMERICAN RIFLEMAN is the fact that each new subscription represents a new NRA member, or a return to the fold of a former member.

☆ ☆ ☆

Here are some of the figures. This issue reaches the all-time high of 155,000. A year ago we only needed 86,000 copies to serve our membership. By December of last year, as we all looked toward a speedy reconversion from the tension of war to a more leisurely pace which would allow some recreation, our memberships were starting their post-war spiral . . . 97,000 by the end of the year. The acceleration was the thing that pleased us. By March we were over the 100,000 mark, long a goal of the Association. In April, we reached 110,000. . . . May, 120,000 compared with 85,000 the year before. June, 130,000 . . . July, 142,000 . . . August, 155,000.

☆ ☆ ☆

We mention these figures mainly to show the clan is gathering. We thought you would like to know this assembly of common interests is building up an assurance of preserving one of America's oldest sports. That is important as America grows older and its population takes on more urban characteristics.

These figures also raise certain questions here in the office. What are the major interests of this newly-enlarged group? What are the trends? Is it simply a more general and wider use of guns, in the hunting field or on the target range? Is it an inquisitiveness about powder, bullets, ballistics? Is it toward more "tinkering," the fun of handling guns?

While the RIFLEMAN deals with a specialized subject, a hobby or a profession, the specific interests within the field are innumerable. We hope to find out what the percentages are by means of a survey soon. Do you want more home workshop projects, more technical articles, more on the old guns, the lore associated with those guns or with guns in general; more instruction in target shooting or in hunting?

Your suggestions will be invaluable as a guide to balancing the number of articles devoted to these various interests. We'll be trying to live up to that old sociological axiom, the greatest amount of good to the greatest number of people.

The
AMERICAN RIFLEMAN

Official Journal of The National Rifle Association of America

VOLUME 94 NUMBER 8

AUGUST 1946

"Law vs. Liberty" 6
AN EDITORIAL

Where Do We Go From Here? 7
BY GERRY AVERILL

Match Shooting With the M1 10
BY ALDWIN B. LAWRENCE

Modern Ranges 14

The Mauser H·S·v· 15
BY CAPT C. H. HOWELL, JR.

More About Camp Perry 17

School for Shooters 18
BY RAYMOND J. STANN

Only Yesterday, Conclusion 19
BY LEE ECHOLS

The Navy Returns to the Ranges 22

Care of the Foreign Double Gun 23
BY COL. E. H. HARRISON

For Better Sport: Handicapping 25

Handgun Improvements 26
BY BILL KIRSH

Remodeling the Military Mauser, Conclusion 27
BY MORGAN HOLMES

Ross Reversal 30
BY H. V. STENT

"Rules for Revolution" 31

Camp Perry Matches 35

Old Coach 36

COVER

The pronghorn antelope is the most uniquely North American of any native big game species. Second in *The Rifleman's* series of big game covers, this antelope was photographed by William L. Finley on the ranges of Yellowstone National Park, Wyoming. Once plentiful, antelope are reported to be nearing extinction in areas where coyotes have increased heavily, due to the wartime years of ammunition scarcity and curtailed hunting.

PUBLISHED MONTHLY BY THE NATIONAL RIFLE ASSOCIATION OF AMERICA, 1600 RHODE ISLAND AVENUE, WASHINGTON 6, D. C. DOMESTIC RATES (NORTH, SOUTH, AND CENTRAL AMERICA) $3.00 A YEAR; $5.00 FOR TWO YEARS. ELSEWHERE, $3.00 A YEAR; $6.50 FOR TWO YEARS. ENTERED AS SECOND-CLASS MATTER, APRIL 1, 1908, AT THE POST OFFICE AT WASHINGTON, D. C., UNDER ACT OF MARCH 3, 1879. COPYRIGHT, 1946, NATIONAL RIFLE ASSOCIATION OF AMERICA. ALL RIGHTS RESERVED. FOR CHANGE OF ADDRESS, GIVE BOTH NEW AND OLD ADDRESS AS THE LATTER APPEARS ON ADDRESS LABEL.

"Law vs. Liberty"

"DEAR SIR:

"For the past few months I have read article after article in THE AMERICAN RIFLEMAN and various other magazines criticizing the Hawkes Registration Bill. I have written four or five letters to various Congressmen, expressing my contempt of the bill and received courteous replies to each.

"I am writing to you to ask *why* I wrote those letters! This bill did not pass, but some day one will. Everyone mourns the fact that some day our guns are apt to be taken away, but does anyone do anything about it? No.

"Some day people are going to forget to write 'that letter' and then the bill will pass. The American public is too busy earning a living to bother with writing a letter every week—even for something as important as this. So why can't we all urge our Congressmen to pass a bill forbidding federal, state, and municipal governments from requiring the registration or confiscation of firearms and forbidding federal, state, and municipal authorities from requiring a permit to purchase a firearm?

"I don't know much about government procedure—except that it is slow and expensive—and maybe I am barking up the wrong tree, but I am barking and it sounds reasonable.

"This is such a simple solution that someone else must have thought of it long before I ever squeezed a trigger, but I am rather young (18) and haven't been one of your 'customers' long, so would you please be so kind as to pass the information, please.

Yours sincerely,

CLINTON ———, JR."

DEAR CLINTON:

I very much appreciated your letter of the twentieth with regard to the anti-firearms situation.

There is one thing which you and all young men of your age must never forget: "The price of liberty is eternal vigilance." You can never *insure* liberty by passing any kind of a law. There always have been and always will be individuals and groups who feel that their ideas concerning government and what is good for the people are the only right ideas. They are so certain of this that they are utterly impatient with the idea of majority rule and they are constantly striving, either by propaganda or violence, or both, to pass the kind of laws which they want and which will give them control of the day-to-day lives of the rest of the people. I believe it was Thomas Jefferson who said: "That government is best which governs least." This is the essence of democratic government, but it is not the idea which appeals to "know-it-all" minority groups.

What I am trying to point out is that even if we might succeed in persuading Congress and the State Legislatures to pass a law saying that it was illegal for Federal or State officials to require the registration of privately owned arms, such action would not in any way *insure* us against the future. Such a law could be repealed at any time that the antigun crowd was able to muster enough strength to put it over. In other words, we would be no better off than we are at the present time.

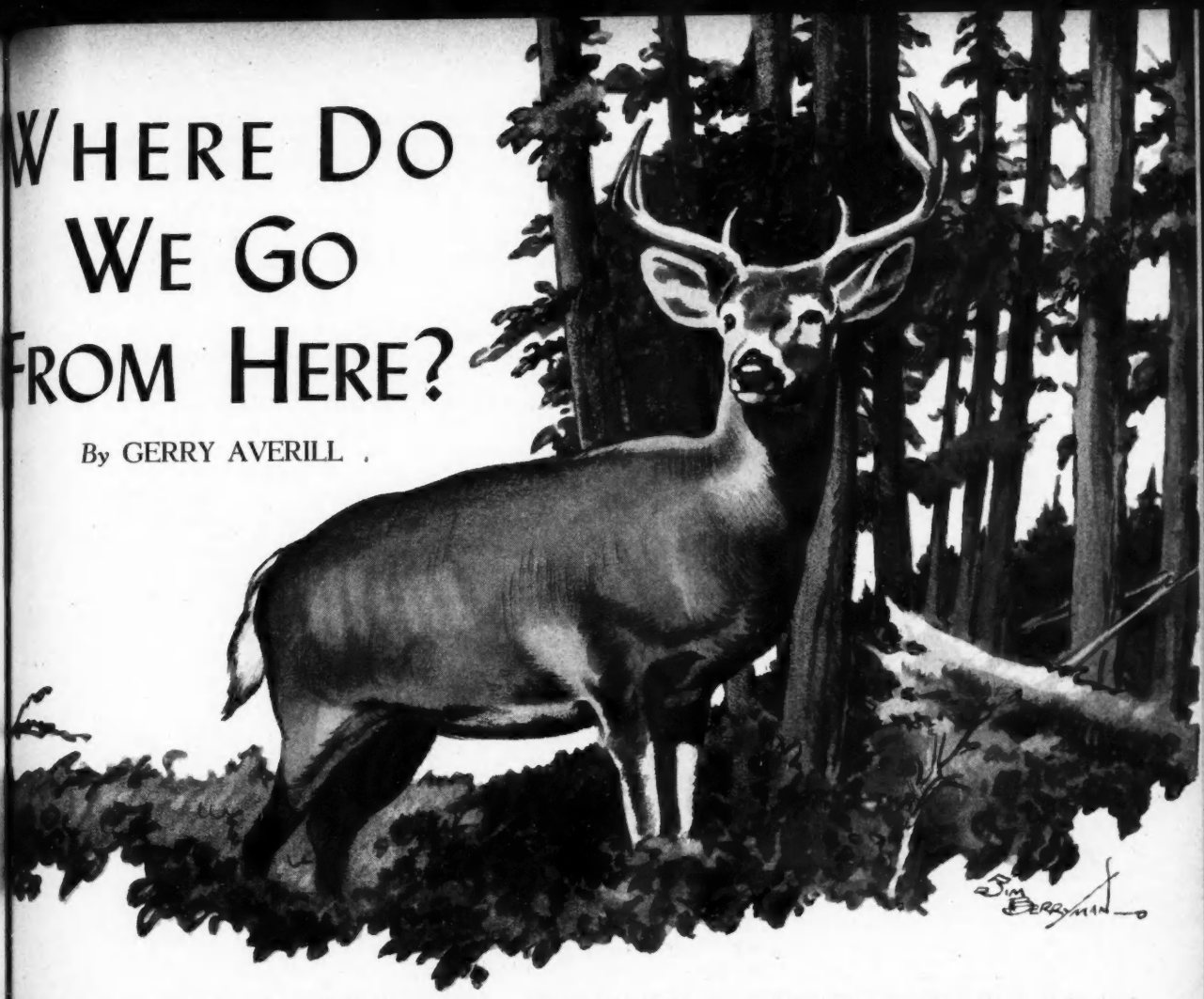
We must expect to have to continue our fight indefinitely, just as you must expect to have to continue to fight indefinitely for the preservation of those other liberties which go to make up the American idea of freedom and democratic government. You and your friends who in a few years will be controlling and directing the business and government of America must never relax your vigilance, you must never be too busy to fight for your liberties, and you must never think that you can insure freedom merely by passing a law.

Sincerely yours,

C. B. L.

WHERE DO WE GO FROM HERE?

By GERRY AVERILL



THERE ARE STILL QUITE a few individuals in this country of ours who do not take their shooting too seriously. They begin to feel the urge for the open around the last of September and by the middle of October they are warmed up and going good. These are the ones who walk into stores and pay retail prices for both arms and ammunition and serve to keep the factories running.

To them there are two kinds of rifles, the ones made for killing and the target rifles, mostly of .22 caliber, which can also be used for small game and varmints. Just how many of them greet a new model with glad cries and a fistful of cash, I would not know, but from what I have seen they are inclined to be a little conservative.

During the last decade and particularly just before this last war, the experiments conducted in propelling very light, small-caliber bullets resulted in the commercial production of several interesting weapons—the Hornet, the .220 Swift, and the .257 Roberts. Since the production of these rifles, it is safe to say that I have checked and talked with at least 2,000 hunters, and glanced at the weapons of a few thousand more, and of these three, the little Hornet is the only one that I have seen in the woods. This is not a local condition, as a great number of these people came from other states. Before going any further, I want to say that this Hornet as loaded commercially is killing deer very dead with *body shots*. I was lucky enough to check three deer in one week that had been downed with soft-point Hornet bullets planted just aft the shoulder blade, and the following winter a poacher shot another with a Savage Utility Model Hornet.

THE "RIDGE RUNNER" REFLECTS ON THE STRANGE TASTES OF HUNTERS . . . COMPARING THE RIFLE OF TOMORROW WITH WHAT WE ALREADY HAVE, AVERILL WONDERS WHAT THAT POST-WAR EQUIPMENT IS GOING TO DO THAT AN OLD .30-'06 WON'T . . .

The number of wildcat calibers and freak rifles developed to a more or less successful degree is nothing less than astonishing, but as most of them are strictly gun crank propositions, the general public knows little and cares less about them. The series of "Bull Pups" so ably pictured and described in THE AMERICAN RIFLEMAN will serve to give the layman a general idea as to how far a crank will go in working on a hobby. If a man wants to rest his ear on the chamber of a high-powered rifle instead of laying his cheek back on the stock in the conventional manner, that's *his* business. I once knew a guy who

amused himself by smoking cigarettes from the lighted end.

Now that the war is over, and as soon as men and materials are again available, we may assume that the arms manufacturers will begin to buy advertising space in large quantities and produce some hopped-up superspeeds that will put all previous varieties in the Model-T class. Just what will be offered is something for all of us to wait and watch for. But outside of satisfying an experimental curiosity in regard to something entirely new, just how can the average hunter or target shooter hope to better his past performances with tools already at hand?

We have had for many years any number of good rifles, chambered for such excellent factory ammunition, that if they were expertly used in the pursuit of game there would be very little game left to shoot at. It is a positive, though sad, fact that a man can miss a deer or bear just as well with the latest bolt-action .300 Magnum as he can with a Model '95 .30-40.

There has been a great tendency among sporting writers during the past few years to cry down certain well-known cartridges in regard to bullet performance. They offer tables of energy, details of construction, penetration and expansion figures, and a lot more interesting facts to prove that a bullet will behave thus and so. Now, I have never killed any larger game than moose or any tougher game than black bear, but I have never in all my pothunting career, regardless of what rifle or what sort of loads I was using, been able to foresee or guarantee just what a slug was going to do. In connection with this, I have conducted a good many post-mortems and have also wasted a lot of good ammunition shooting different types of bullets into various substances. Quite early in the game I realized that materials such as paraffine, soft clay, bundles of magazines, et cetera, were decidedly different in texture than flesh and bone, so I went to work on dead cattle and horses. All I learned was that dead meat is far different from living flesh, which contains large amounts of liquid. Liquids exert a great influence on the expansion of all bullets, and especially those of the open-point variety.

Pawing around inside the bowels of a dead animal is kind of messy, and it is hard to interest the average hunter in the actual effect of his bullet on game. The book says the gun is all right for deer or bear, other people have been successful with it, so why worry about the gory details? Perhaps if some wounds I have seen had been examined a little more carefully, there might have been some closer holding, and the elimination of a lot of suffering. It will always remain a mystery to me how an animal like a whitetail doe can take the rending shock of a modern bullet in a near-vital area and move off as smoothly and proudly as if she had been missed entirely. In 1943 I saw two mature does shot with .30-'06 M1 doctored bullets which landed in both cases in the middle of the body just about six inches back of the shoulders. The bullets began to open up almost instantly and when they came through the ribs on the opposite side, they blew ragged, irregular holes as large as a baseball. These deer showed no evidence at all of being hit, their tails went up and they went out of the open and into the timber for fifty yards before they went down, one behind the other. One died while running, but the other doe was still alive with its head up two or three minutes after the shot.

A man can take a good rifle and do a messy job with it, and there are some very neat killings being done with rifles that some people would call inadequate and obsolete. I have seen numerous black bear that have been killed with everything from a .22 pistol to the old .50-110. I killed my first one with a .33 Winchester, which was supposed to have been quite a gun in its day. I don't mean to infer that it isn't still quite a gun, but you just don't see many of them around any more.

This bear was fooling around a small log jam on a stream which we were driving. I came upon him from a high bank almost straight above, and before he saw me I had the sights on him and a bullet into his middle. I could have shot him in the back of the neck or down through the shoulders and made a workmanlike job of it, but no—I froze up and let him have it amidships. I had five shells, and as fast as I could work the lever I dumped them into him—all in the same place. Of all the noisy, dirty, bawling, squealing messes I ever got into this one took the medal. Long after my gun was empty that bear continued to be very much alive. Never since have I seen any warm-blooded animal take so much time dying and make so much noise and fuss about it. The affair sickened me and did a lot toward making me a more careful shot, but I probably would have done no better at that time had I been armed with the most modern of Magnums.

One of the finest men and cleanest hunters that I have ever met was a strong advocate of the .30-40. He used this cartridge first in the Winchester '95 and later in a Krag sporter. This Krag, using the old 220 grain soft-point bullet, was one of the most easy-handling and accurate rifles I ever saw. It killed a lot of deer and bear, all the way from twenty-five yards to 300, and its owner would shoot off the heads of grouse at twenty or twenty-five yards with hardly a miss. The dependable performance of this cartridge on deer and bear is now traditional. I used it some time before I deserted it for the .30-'06 and the Springfield.

Of course, I realize that the .30-'06 is practically obsolete as a sporting weapon, but I can remember when a gentleman by the name of Stewart Edward White wrote something called "Lions In The Path" and told how he had cross-piled 'em one on top of the other with a Springfield sporter. These were real African lions, the kind that run at people and bite them when they are displeased. Mr. White seemed to have a wholesome respect for lions, but kept right on killing them very dead with a rifle and cartridge that a modern moose or elk hunter wouldn't be found dead with. It's simply not gun enough for an overgrown cow, but it's mighty rough on lions. Then, there was the Roosevelt party. They, too, were rash enough to take the .30 down into the African game fields. As I remember it, Teddy favored the .405 for lions, but did manage to kill about every variety of African antelope with the .30. Some of these antelope, they tell me, are nearly as large as a heavy elk or moose. The eland, for instance, is quite a bit of

meat on the hoof. I do not think these gentlemen had any great choice of cartridges at this time, either, and since then there have been several different commercial loads manufactured, at least one of which was especially designed for lion shooting. It seems that almost everybody's ideas have been tried out in regard to this one cartridge anyway, and in addition to the dozen different loadings that can be bought over the counter—well, will somebody make a guess as to how many handloads have been worked up?

I am not a handloader or a ballistician. I have never had room to set up a loading bench, and I wouldn't know an algebraic equation from an owl's eye. But I do find it possible to obtain some cheap ammunition now and then, and I am just simple-minded enough to take the stuff without too much curiosity as to its components, and have a lot of fun shooting

at things with it. If I knew how bad it was, it would probably spoil all my fun.

The old Springfield that I am shooting now is practically a wreck. At 100 measured yards with service ammunition and open sights, the best I can do with it is a group of ten shots that measures three inches vertical by two inches horizontal. This is terrible from the standpoint of group accuracy, but somehow when you lay her onto something alive you get a pleasant surprise. The gun is a freak and nobody in his right senses would give ten dollars for it, but it can't be bought as long as I am alive. It is an example of one of the very early stocking jobs and the work must have been done by a rank amateur. It was equipped with a Lyman 48-W, but instead of taking off the old service sight, whoever did the work left it right there. The barrel and action were so poorly bedded that the first time I put a bandoleer of M1's through it, I shot her clean out of the stock.

I had been having some trouble with my eyes, so when I had the barrel bedded and a cross bolt put in, I looked around for a front sight high enough so that I could use the battle sight bar for snap shooting at short range. The gunsmith that did the repair work for me found the sight and by carefully working down the battle sight a little, managed to get it about right for 100 yards, using the old 220 grain soft-point loads. It proved to be just about perfect. Two weeks after I put the old relic into the car to use as a work gun, I shot two wild deer-killing dogs nearly 300 yards away across a flooded meadow. They had a doe stretched out, tearing the guts out of her, and as there were two witnesses clamoring for action I couldn't try to get any nearer. I sat down on the car bumper and went to work. One dog was big and black and showed up fine against the snow. One shot, one dog. The other, nearly all white, was a different proposition, but I got a leg the second try and the rest of him the fourth shot. Of course, this was nothing like shooting coyotes with five hundred bucks worth of special Magnum with scope, but those two dogs had just about cleaned out one deeryard, and they looked fine laid out on the snow.

Now, it says in the book that these old, heavy 220 grain bullets have a very high trajectory and that they move along through the air at kind of a leisurely pace, up and over like a long throw from center field to home plate. After a while they land on whatever they have been headed for and proceed to plow steadily through flesh and bone, kind of wearing a fair-sized hole that causes considerable bloodshed but does not irritate the surrounding tissues a whole lot. If I've read about it once, I have a thousand times. Some of these descriptions are not only interesting but quite convincing. I will not in my vast ignorance presume to question any of these statements, but I will say that either these rifles I have been using are much different from the general run, or else my cartridges were loaded as a sort of surprise package. How else can I account for what happened to a deer that I speared head-on with one of these mild doses with the dreamy drift. Something went into the brisket just left of center, tore off the left shoulder blade, went down the ribs a ways and then came out, leaving a hole you could stuff a football into. That wasn't what I bought, and I was some surprised and hurt about it. There wasn't enough clean meat left on that shoulder to make a small soup.

Now, I don't want to bore anyone to death by repetition, but in view of the impressive list of excellent rifles that have been available for some time, what is it that we are looking for or that can be offered commercially that is going to beat the rifles we already have? Can anyone honestly believe that any hunter of average skill cannot bring home his deer or bear with such rifles as the .303 Savage, .35 Remington, the .30-'06 with its various loadings, the .270 Winchester, or the .257 Roberts? What amount of shock or mutilation is wanted beyond what these rifles can produce? I have no doubt that a rifle and load can be put on the market that will bring down almost any North American game with a shot in the body, but what is that bullet going to do to the meat? Personally, I think the .30-'06 is a little *too much* gun for eastern shooting.

If I had a choice in the matter and could afford what I really want, I believe I would have one of those Sedgley Sporters in .25-35 or 7 mm., as I sincerely believe either one of them entirely adequate for any hunting I may do, and I would have the added satisfaction and pleasure of using such a rifle on chucks and varmints during the summer. This outfit would, of course, be equipped with a suitable scope. But before I begin planning on it, I just must have a plain little store-bought Hornet. I by-passed that one and I'll never be satisfied until I mount a Weaver 29S on one and give it the works. ♣ ♣ ♣

MATCH SHOOTING . . .

By ALDWIN B. LAWRENCE

After performing well in world's biggest war, the M1 is now in the balance as a target arm. Photo above was taken at Camp Perry in 1940, when M1 received first tryout on rifle ranges.

THE SCOTT, THE WIMBLEDON, the President's Match, the National Team Match . . . these have been part of the tradition and lure of the National Matches for decades. And this lure, this tradition, was built around the long-range accuracy and reliable performance of the familiar 1903 Springfield. Today that rifle is no longer with us. We have a new one—the Garand M1.

Perhaps, too, we shall have new matches, for the Garand does not yet possess the long-range accuracy and dependability of the Springfield. The question even arises as to whether .30 caliber National Matches can be held with the Garand at all.

First of all, we should admit that combat has proved that the Garand rifle is of tremendous value in the type of warfare in which our troops were recently engaged. In close combat, it gave our men a considerable advantage over the enemy—an advantage all hands were glad to have. But for match shooting as we knew it in the past—particularly for matches the size of the Camp Perry Nationals—the Garand rifle, in comparison with the Springfield, has several disadvantages.

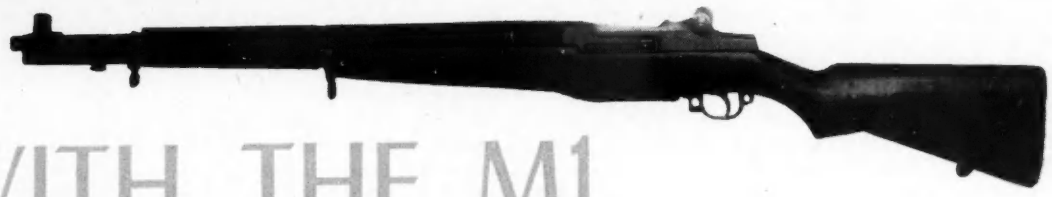
In an effort to understand and overcome the disadvantages, and to re-establish its methods of peacetime training, the Marine Corps began official match shooting with the Garand early this year.

The first of these events, the Pacific Division Rifle Match, was fired at Pearl Harbor on February 26 and 27. This was followed by the Western at San Diego, the Southeastern at Parris Island, South Carolina, and the Eastern Division at Quantico, Virginia, all during April and May. The place winners from these four divisional matches, a total of 153 shooters, were then entered in the traditional Marine Corps Match, which was fired at Quantico, Virginia, on June 4, 1946.

Of the team matches, the Bear Trophy and the Elliott Trophy—both four-man events—were fired at San Diego and Quantico. In addition, a third team match, not originally planned, was fired at Quantico as an experiment. This match was fired by four ten-man teams selected from representatives of the four divisional areas, and was staged over an experimental course (Table 2).

Entries for these matches represented a cross section of the

The favorite on ranges for decades, the bolt-action Springfield M1903 is still most accurate of its type.



WITH THE M1

VICTOR IN BATTLES FROM BASTOGNE TO TULAGI, JOHN GARAND'S M1 IS NOW FACING ITS SECOND BIG TEST. WILL IT EQUAL SPRINGFIELD PERFORMANCE IN RIFLE COMPETITION?

The M1 had its first full-scale tryout as a target arm this year, when Marines used it in their annual matches, fired June 4th.

A close-up of the M1 rifle, with the bolt open and a loaded clip ready. The shooter is Gunnery Sergeant Roy F. Rice, winner of Marine Corps Eastern Divisional championship.

Marine Corps and were of varying skill. Many of them were old-time Marine shooters, but the majority by far were newcomers, making their first appearance in rifle matches. This, together with the time used and the separation of localities, indicates that a fair test was made of both rifle and firing course.

Naturally, when practice for the Marine matches began, the old-timers were the first to complain. In fact they were the only ones to complain. The newcomers had no comparison upon which to base a complaint; the Garand is the only rifle they know. To the old-timers, however, the differences in rifle performance and the handicaps of the course used brought on nostalgic memories of the 1903 Springfield and the old National Match course.

Some of us were convinced at the start that the Garand wouldn't shoot well enough for competition, and remained convinced until we noticed that the "kids" were making more points than we were. In an effort to keep up, we learned that the Garand will shoot after all . . . within its limitations. We tried to overcome some of the M1's limitations—handicaps not present when the Springfield was used on the old National Match course.

ALDWIN B. LAWRENCE *is a chief warrant officer, USMC. He started shooting, via the CMTC, in 1921, has put in two seasons at Camp Perry, and is now a member of the special squad of the Marine Corps rifle team. Though not an official report, his admittedly "opinionated" appraisal of the M1 as a target arm is the first thorough estimate of Garand range potentialities to appear in print.*

To begin with, shooters who feel that three-and-one-half-pound triggers are necessary may as well get over the idea, because Garand triggers can't be reduced to three and one-half pounds. Personally, this had to be proved, and it was. A trigger was carefully built at four pounds with the idea that it would "wear in" at three and one-half . . . it lasted just eight days, when it went automatic. Then, on the same rifle, a clean trigger taking four and three-quarters and refusing five pounds was fitted together from a large assortment of parts. This trigger lasted very well; it was used through the Pacific, Western, and Eastern Division Matches, and when turned

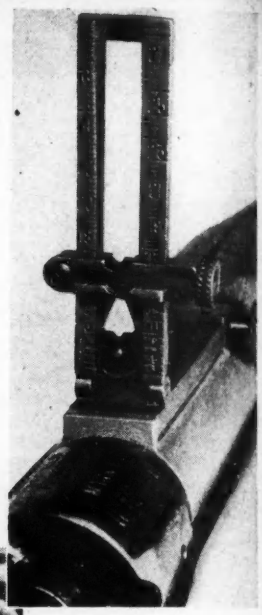
in was still functioning perfectly. No cut of any kind was made on the sear of this trigger, nor was it ever taken down for cleaning. Through all of the firing, it retained its clean break—point one for the Garand.

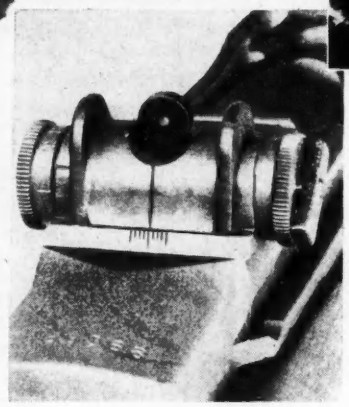
One other point, not so good, was brought out in regard to the Garand trigger. This is delay in action, caused by the long, comparatively slow overhand stroke of the hammer. This type of trigger, in the opinion of some shooters, will often permit involuntary movement after the sear has been released. Carrying this opinion further, the hammer does not strike the primer directly, but first strikes a floating firing pin which increases delay and the possibility of involuntary movement, particularly at 200 yards offhand.

This may be true, at least in part. But the opinion favored here is that most of this involuntary movement is the result of too much tension on the sear, which tends to cause a flip. Some relief from this was obtained, personally, by a slight reduction in the length of the hammer spring, which reduced the tension and permitted smoother functioning of the sear and hammer release. Scores increased, though the hammer must have moved more slowly.

A much more important handicap lies in the difference in size and mechanical operation of the Garand and Springfield sights. The Garand front sight, for instance, will occasionally cause trouble because it is built upon the gas cylinder—and the gas cylinder is removable. It sometimes works loose, causing wobble in the front sight. But trouble here need not be constant. Wobble can easily be taken out of the front sight by removing the gas cylinder and carefully peening the three gas-cylinder holding grooves on the front of the barrel, and then tapping the gas cylinder back on with a light hammer and block of wood. The block of wood should always be used, because if the inner threads of the gas cylinder are even slightly battered it will be extremely difficult to remove or adjust the gas cylinder head.

But trouble with the Garand rear sight is not occasional; it is constant. This rear sight, with its loose construction and inconvenient operation, presents several problems when used in competition. Obviously, and sensibly, it was designed for combat—not for paper targets. Due to its design, it is very difficult to tighten. Then, when it is tightened, the rear sight windage spring will often lack sufficient strength to push the peep to the left. Tightening the elevating grooves and ratchet of the rear sight peep by delicate peening usually causes binding at certain points, and demands a skillful mechanic.





Springfield rear sight (above) is farther from eye than sight of M1, and aperture is in proportion to targets now in use. As shown in photo at left, the M1 rear sight is much closer to shooter's eye, and the apparent size of aperture is far larger.

One often-heard complaint comes from the inability to make fast and correct wind changes. This is a handicap. In order to make a wind change with the Garand rear sight, it is first necessary to loosen the rear sight locking screw, make the change, retighten the locking screw and then shoot.

Then, even if the wind is steady, the shooter will sometimes find it impossible to make the *correct* change because Garand windage is set off in clicks—clicks which, in comparison with the Spring-

Fig. 1: An easy error to make with wide front sight of M1.

Fig. 2: "Crowded" sight picture is another frequent trouble.

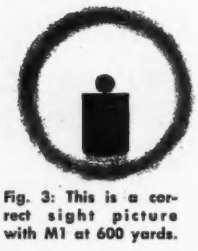


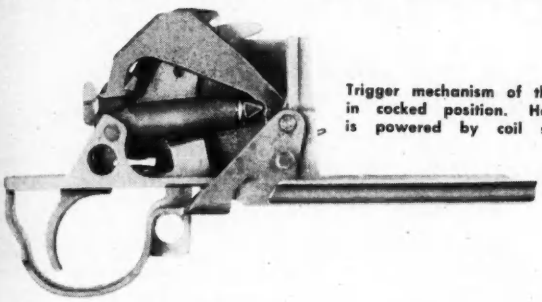
Fig. 3: This is a correct sight picture with M1 at 600 yards.

Fig. 4: At 600 yards, 1903 sights give correct target-sight ratio.

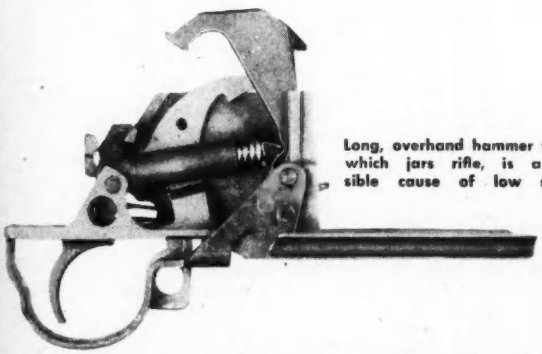
field wind gauge, represent one-quarter point of wind. This sounds very nice; but it is not. There will be many occasions when a light quarter or a strong quarter is desired rather than a full quarter-point click . . . unfortunately, the wind does not always blow in quarter-point clicks. In this event, when the shooter must take a full quarter-point click one way or the other, he is likely to get a group half in and half out on one side or the other.

Another bad feature of the Garand sight is aperture and blade size. Because of this feature, sight pictures formed with the Garand are much more difficult to control than those formed with the Springfield. The thick front-sight blade and the large peep of the Garand are out of balance with the ten-inch "A" target at 300 yards and with the twenty-inch "B" target at 500 and 600 yards.

At five and six hundred yards, a shot turned loose on the right-hand corner of the front sight will bring up a three at nine o'clock, or vice versa. Even at 300 yards, such shots will be very wide. At 300, 500, and 600 yards, the size of the Garand sights makes it easier to crowd the black, thus creating blurs and throwing shots out from ten to two o'clock. Further, *Figures 1, 2, and 3* show that in addition to centering



Trigger mechanism of the M1 in cocked position. Hammer is powered by coil spring.



Long, overhand hammer throw, which jars rifle, is a possible cause of low scores.

the sight picture and holding at six o'clock, it is also necessary to put the bullseye in the exact center of the Garand front sight, being careful not to crowd.

With these handicaps, the difficulty of holding off when dope is found wrong during rapid fire can be well imagined. Personally, the only method that worked at all, in holding off for elevation, was simply taking more or less front sight as the case required. No successful way to hold off for windage was found. On the assumption that rapid-fire dope would be within one quarter-point of correct, better scores were made by holding tight and letting the group land at three or nine o'clock as the wind or incorrect dope demanded.

Figure 4, showing the Springfield sight picture, reveals this ratio. When looking through the sights, the diameter of the bullseye appears to equal the thickness of the front sight. This sight is in balance with the size of the target, and correct sight pictures are much more likely; also, holding off in rapid fire can be done with some skill because the sight picture can be kept centered and an exact aiming point maintained. Changing an aiming point is comparatively easy, but changing a sight picture during a string of rapid fire is extremely difficult.

At this point, considering the rifle alone, some of the reasons why Garand scores do not compare too favorably with past Springfield scores are apparent. But none of these is the primary reason why National Rifle Matches with the Garand will be difficult; that reason is functioning.

Before going into functioning, it should be pointed out that automatic and semiautomatic weapons—the Garand being semiautomatic—function as the result of force and counterforce. In other words, there exists in such weapons a rearward force which pushes all working parts to the rear, extracting and ejecting the used cartridge, and a forward force which returns the working parts to their forward, or firing, position, and at the same time feeding a new cartridge into the chamber. In the Garand rifle, the rearward force comes from expanding powder gases, which pass through a port near the muzzle of the barrel and strike against the operating rod piston, which is kicked to the rear, carrying all other working parts with it. The forward force comes from the operating spring, which is compressed as the parts move rearward and is thereby enabled to push the working parts forward again when gas pressure falls off. Obviously, these two forces must be in proper balance. When such weapons are out of balance, they will not function satisfactorily in rapid fire.

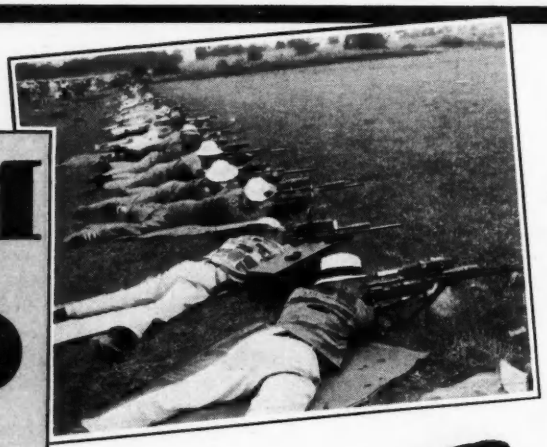
More than a little trouble is likely to occur when the Garand is used, as issued, in matches the size of the Nationals. During the two days required to fire the Pacific Division Rifle Match, which consisted of only 298 shooters, about twenty-five failures to feed were recorded. Rifles in some cases failed to fire several times in succession.

The majority of these failures to feed occurred on, or near, the seventh round. This seems a bit bewildering, but there is at least one logical explanation . . . lack of sufficient upward pressure on the follower.

It is realized, of course, that a change in the balanced force and counterforce which operates the Garand rifle can result from insufficient gas (rare in the Garand), a weak operating spring, excessive friction due to burred or ill-fitting parts, or a dirty chamber (or a plain dirty gun)—this last being the fault of the shooter and not that of the rifle. But neither lack of gas, dirty chamber, or a dirty gun will cause failure to feed the seventh round more often than other rounds. However, it *can* result from excessive friction or a weak operating spring.

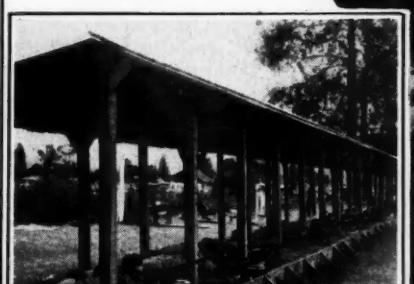
In order for this to be understood, it must be explained that upward pressure on the follower comes from the operating spring and not from a follower spring as in the 1903 Springfield. In the Garand, the operating spring thrusts forward to return all working parts to firing position and also pushes rearward to provide upward pressure on the follower. It must also be borne in mind, in seeking an explanation for failure to feed on, or near, the seventh round, that the thrust power of the operating spring decreases as the fol- (*Continued on page* 32)

OUTDOOR SMALL BORE RIFLE RANGE PLANS



MODERN

NRA



RANGES

In the September 1945 RIFLEMAN it was announced that working drawings for an outdoor pistol range were available. Since that time we have received numerous requests for them.

The Range Planning Section of the NRA Technical Division has now completed working drawings for an outdoor small-bore rifle range.

These drawings include detailed instructions for selecting the site and laying out the range. Complete details for covered firing points, target frames and backers are given and a list of needed materials is included.

As is true of the pistol range and basic clubhouse plans, officials of affiliated clubs may, by writing the Association, obtain free of charge the complete working drawings for an outdoor small-bore rifle range. Individuals who are interested in any of these plans may obtain them by sending $1.00 per set to the NRA.

Working drawings for an outdoor high-power rifle range are almost completed, and an announcement will be published in THE AMERICAN RIFLEMAN next month. ♣ ♣ ♣

A STREAMLINED RIVAL OF THE WALTHER P-38, DISCOVERED BY OUR ORDNANCEMEN IN GERMANY

THE MAUSER H·S·v·

By CAPT. C. H. HOWELL, Jr.

THE DESIGN, DEVELOPMENT, TESTING, and production of military and sporting weapons is a lengthy process, often requiring a period of several years and the expenditure of large sums of money before the weapons are considered satisfactory for use. Sometimes pilot or working models that have shown considerable promise during their early developmental stages later prove to be unsuitable or unsatisfactory during final tests. Experimental weapons of this type may contain design and construction features of interest, even though they failed to be produced as standard models. The Mauser Model HSv is an interesting example of a military pistol which showed great promise during its initial design studies, pilot model, and limited production stages. It is a 9 mm., self-loading weapon designed by the Mauser Works for service tests by the German Army at the time the Germans were considering the adoption of a new pistol to replace the well-known Luger.

Outwardly, the Mauser HSv is a far more appealing handgun than its successful rival, the P-38. Ease of manufacture and greater ruggedness probably influenced Germans in selecting P-38 instead of HSv.

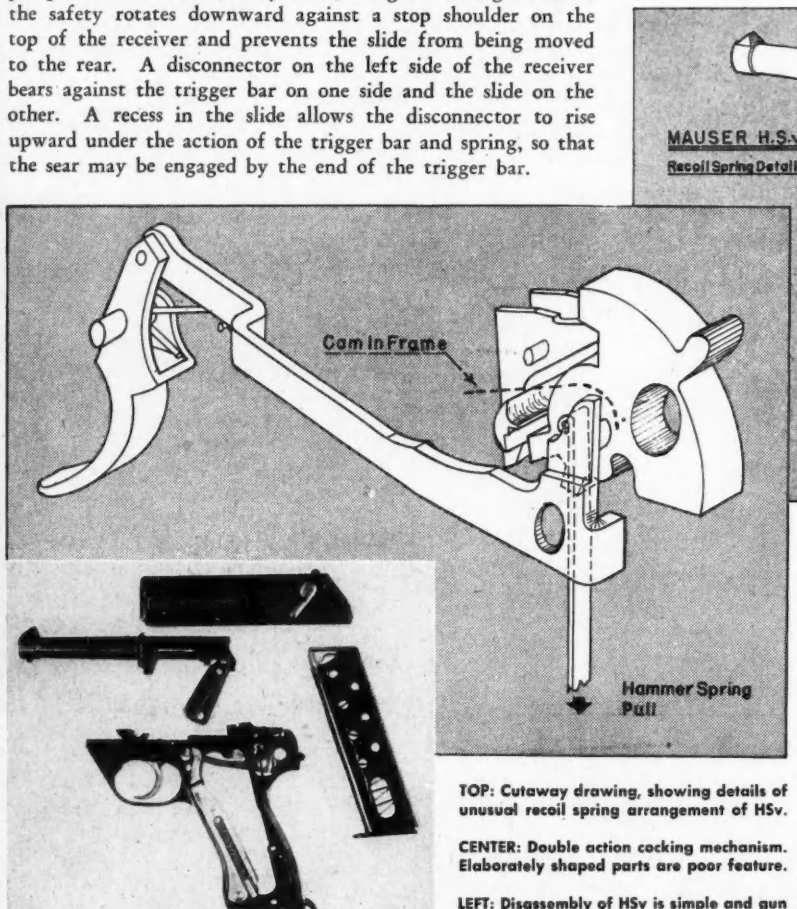
A direct comparison of the principal characteristics of the Mauser pistol and its successful competitor, the 9 mm. Walther, indicates the definite requirements of the German Ordnance Department at that time. Both of the weapons have a magazine capacity of eight rounds, and both of them have a double-action trigger mechanism which permits the first shot to be fired without cocking the hammer by hand. Evidently this feature of design was considered to be important for military and police pistols, since other models produced in Germany about the same time have trigger mechanisms of the double-action type. While a double-action trigger mechanism has some technical advantages over a single-action mechanism, it is usually accomplished at the expense of simplicity of design and ease of manufacture. The trigger mechanisms of the Mauser HSv and of the Walther are quite complex.

The over-all length of the Mauser is exactly that of the Walther, but the general outline and appearance of the Mauser is not unlike an oversize Colt Woodsman, since the smooth outline of the rear of the Mauser slide and the angle of the grip in relation to the barrel are similar to the Woodsman. A small hammer spur projects from the rear of the Mauser slide, making it possible to cock the pistol by hand if desired, or to lower the hammer from the cocked position.

The Mauser operates on the short-recoil principle. The barrel and slide recoil together approximately one-quarter of an inch upon discharge; the breech lock is rotated downward and out of its locking recesses along the forward sides of the slide by the action of a stud in the bottom of the receiver. The rearward motion of the slide is arrested by shoulders on the receiver in front of the magazine opening. On each side of the receiver is a spring-loaded lever, pivoted in a V-shaped recess at the bottom of the receiver at the lower end and shaped at the upper end to engage in slots in the lower portion of the slide. Each of these levers is slotted to receive a strong compression spring, one end of which bears against the upper portion of the lever, while the lower end bears against the bottom of the receiver. These two levers and springs show an ingenious solution to the problem of fitting adequate recoil springs in a pistol without mounting them around the barrel, or increasing the width of the receiver

to provide a housing for them as was done on the Walther pistol. The Walther slide is nearly one-quarter of an inch wider than the slide of the Mauser. Any reduction in weight or bulk is an important feature to be considered in a military pistol, and in this aspect the Mauser is superior to the Walther.

A safety on the slide rotates the firing pin upward toward the top of the slide, out of the path of the hammer nose, by means of an eccentric cam through which the end of the firing pin passes. When the safety is on, a lug on the right side of the safety rotates downward against a stop shoulder on the top of the receiver and prevents the slide from being moved to the rear. A disconnector on the left side of the receiver bears against the trigger bar on one side and the slide on the other. A recess in the slide allows the disconnector to rise upward under the action of the trigger bar and spring, so that the sear may be engaged by the end of the trigger bar.



TOP: Cutaway drawing, showing details of unusual recoil spring arrangement of HSv.

CENTER: Double action cocking mechanism. Elaborately shaped parts are poor feature.

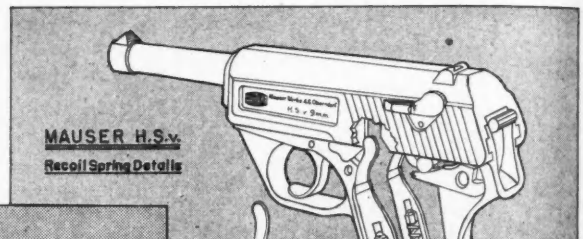
LEFT: Disassembly of HSv is simple and gun can be stripped in a few seconds.

After the last round in the magazine has been fired, the slide remains to the rear, and cannot be released until a new magazine is inserted. The slide is released by the slide stop when a new magazine is inserted. Although the pistol can be hand cocked without a magazine in place, it will not fire either single or double action, since the left edge of the magazine lip is required to depress the slide stop. The slide stop in turn bears against the disconnector, so that the linkage between the trigger bar and the sear is broken. The safety features of the Mauser are better than those of the Walther.

The appearance and profile of the Mauser pistol are more pleasing to the eye than those of the Walther pistol, and most shooters who have examined both of them prefer the grip of the Mauser.

Although official test reports of this weapon by the German Ordnance Department are not available for publication, it is evident that one of the reasons why the Mauser Model HSv was not adopted was the difficulty of manufacture in large quantities for military use, for in this respect it is decidedly inferior to the Walther model.

The disassembly and assembly of the Mauser is simple, at least for cleaning purposes. The magazine is removed by releasing the catch at the bottom of the grip and withdrawing the magazine in the normal manner. Then the hammer is cocked. In the upper forward portion of the trigger guard is a spring-loaded barrel latch. If this latch is depressed at the same time that the barrel and slide are moved forward approximately one-quarter of an inch, and then lifted upward, the slide and the barrel will separate from the receiver. Assembly is done in the opposite order. This method of disassembly closely follows that of the 7.65 mm. Mauser HSc, which the HSv resembles in several other features.



A comparison of the principal characteristics of the Mauser HSv, the Walther, and our Colt Model 1911A1 affords an interesting study.

	Mauser HSv	*Walther*	*Colt*
Barrel length	5.25 inches	4.90 in.	4.85 in.
Length of slide	5.20 inches	5.45 in.	7.40 in.
Length overall	8.50 inches	8.50 in.	8.50 in.
Height	5.40 inches	5.40 in.	5.45 in.
Sight Radius	7.00 inches	7.00 in.	6.50 in.
Magazine capacity	8 rounds	8 rounds	7 rounds
Weight, with empty magazine	31 ounces	33 ounces	39 ounces

While the Mauser Model HSv did not become the standard German Army pistol, many of the desirable design features were incorporated in a pistol fabricated almost entirely from stampings and intended for use by the *Volksturm*, or People's Army, during the latter days of the war. ♦ ♦ ♦

MORE ABOUT CAMP PERRY

LESS THAN A MONTH after this magazine reaches you, the crackle of gunfire will again enliven the shores of Lake Erie and the competitive shooter's five-year wartime dream will come true.

Nostalgic memories of the National Matches at Camp Perry . . . of fishtail winds and friendly bull sessions, of crisp, fried frog legs and Burgundy wine . . . welcome solace to servicemen and war workers all over the world, will be relived come August 31. The embellishments may not be up to prewar standard, but there'll be competition a-plenty.

Here is the latest definite information available at press time concerning the 1946 National Rifle and Pistol Matches at Camp Perry, Ohio:

Dates are now official—August 31 to September 8, inclusive. Do not arrive at Camp Perry before August 30, as no quarters will be available before that date.

Quarters will be available for competitors. No squaw camp, clubhouse, or trailer camp will be operated, but a barracks will be set aside for women willing to live under squad-room conditions. Juniors under sixteen years of age will not be permitted quarters in camp. A survey of housing conditions in towns near Camp Perry reveals that quarters outside of Perry are practically unobtainable, so do not bring young children unless you have arranged for lodging and meals. They cannot be provided for at Camp Perry.

Meals will be served to competitors only, beginning with supper on August 30. The mess will be operated on a cafeteria plan at a cost of not more than $2.50 per day.

Bedding, consisting of a cot, mattress, and two blankets, will be issued to each person assigned quarters. A $20.00 deposit per person will be required, and a laundry charge of not over $2.00 will be deducted when bedding is returned. Bring all other items you will need. There'll be no chance to get them at Camp Perry.

Express and Freight should be addressed to the competitor at Lacarne, Ohio, with further address: Ohio State Rifle Range, Camp Perry, Ohio.

Mail should be addressed to the competitor, General Delivery, Camp Perry, Ohio. Do not have mail addressed in care of the NRA or the Director of Civilian Marksmanship.

Rail Passengers should check with their local agent for full travel information. Flag station stops on the main New York Central R. R. line are Port Clinton and Lacarne.

Registration Day will be Saturday, August 31.

The Small Arms Firing School for both small-bore rifle and pistol will open about noon on August 31. There will be no special junior school or matches.

Commercial Row will be operated. For space, write to The Director of Civilian Marksmanship, War Department, Washington 25, D. C.

Shooting—both match and practice—will be limited to small-bore rifles and pistols and revolvers. There can be no 200-yard firing due to lack of personnel. The National Trophy Individual Pistol Match will be fired, but the National Trophy Team Match will not be fired.

No Rifles, Pistols, or .22 Caliber Ammunition will be available for issue. However, .45 caliber A.C.P. ammunition will be issued for the National Trophy Individual Pistol Match.

Practice Matches are scheduled for both rifle and pistol in connection with the Small-Arms Firing School, September 1 and 2. Competitors who do not hold a current NRA Classification Card, either temporary or permanent, must compete in these matches to be classified for remainder of events. Competitors who have an average for classification low enough to place them in the "Unclassified" group according to the NRA Classification System will be placed in a "Tyro Class" and a special award will be offered in that class.

Programs are being prepared but are not expected to be ready in time for mailing before Camp Perry time. If they are available, however, they will be mailed. But, don't expect to receive one until late August at the earliest. A tentative program, subject to change due to variation in either number of targets available or competitors, will be found on page thirty-five of this issue.

Membership and Classification Cards will be required when entering matches. If you need a new card of either type, send for it now. Do this at once. Duplicate cards cannot be issued at Camp Perry for it is impossible to take all the necessary records to the National Matches.

Entries Close at 1 p.m. the second day prior to date of firing. For example: Matches fired September 3 will close for entries at 1 p. m. on September 1. Entry for the School Matches, September 1 and 2, will be made at time of registering for the Small Arms Firing School.

Cross squadding will not be attempted between rifle and pistol matches or to allow two shooters to use the same arm.

ATTENTION! The program on page 35, this issue, is NOT final, and changes are being made. A complete, final schedule will be published in the August issue of *Tournament News*, which you can get from your club secretary, or by writing to the NRA. Make no mail entries unless you have the correct match numbers and dates from this schedule. Be sure to do this; your program may not reach you in time. ♦ ♦ ♦

FREE TRIPS TO CAMP PERRY

Eighty free trips to the National Matches at Camp Perry, Ohio—five from each Regional Tournament—are being awarded this year by the NRA. This is definite.

Free trips will go to each of the Regional Championship aggregate winners, regardless of classification, and to the high Expert, Sharpshooter, Marksman First Class, and Marksman.

Shooters will be reimbursed for travel expenses from their home city to Camp Perry and back, on the basis of round-trip train fare and Pullman between those two points. Payment will be in cash and will be made at Camp Perry after the winner's arrival there for the matches. While reimbursement will be based on round-trip train fare and Pullman, the shooter need not travel by rail if he wishes to do otherwise.

A special team match for Regional winners is on the National Match Program. This event is open only to teams from each NRA Region composed of the five trip winners from that region.

Brother Austin, FSC

School for SHOOTERS

By Raymond J. Stann

THE NOTICE SAID "RIFLE MODERATOR" . . . BROTHER AUSTIN HAD NEVER FIRED ONE, BUT ORDERS WERE ORDERS

THE BIG, BROAD-SHOULDERED MAN in somber religious habit looked incredulously at the typewritten notice on the board . . . shook his head . . . looked up again. It was there, all right:

"RIFLE MODERATOR . . . . . Brother Austin."

So that is what a fellow gets as his first assignment at the new school—"Rifle Moderator," whatever that is!

The Reverend Brother C. Austin, FSC, had always been an athlete . . . played considerable football during his own school days . . . loved basketball . . . and baseball, just any old time. He was an athlete . . . but the Reverend Brother Austin was *first* a Brother of the Christian Schools, and as such had taken a solemn vow of obedience. He would be Rifle Moderator whether he liked it or not. That was five years ago.

Today, Brother Austin is still Rifle Moderator (among other things) at that same Christian Brothers Academy in Albany, New York, and represents a refreshing influence in this competitive sport of ours. Talking with the shooters of the Hudson Valley area, you get the idea that this combination Father Flannigan-Bing Crosby . . . this energetic man with the bouncing half-gallop . . . is really something special. A non-shooter, himself, he nevertheless deeply affects the rifle sport—both junior and senior—in almost the entire Northeast section, and has cut a new pattern for those in charge of shooting programs in American schools.

The success of Brother Austin and the rifle program at CBA has paralleled his change of reasoning in those five years. Openly skeptical of this sport at first, he will tell you now that "as a builder of character, this competitive rifle shooting is tops."

So, he built it up into a major sport at CBA. Members of the varsity rifle team wanted varsity letters . . . the same as for football or track. Brother Austin agreed and took up the fight. Now they get their letters. Earning a place on the rifle team should count in the accumulation of points which determine the individual student's rank in the military activities of the school, the shooters said . . . the same as the other major sports. Brother Austin agreed and it is now a fact.

If it was difficult for this aggressive, liberal-minded Brother to produce such changes in favor of the rifle activity, it is a simple matter now to keep it on the top level. Officials of this relatively small (758 students), modern, Catholic military school have seen too many rifle team members develop the leadership traits, the responsibility, and the spirit of independent action that have carried them to top grades within the Corps of Cadets to deny the sport its place among extra-curricular activities. They have seen Christian Brothers Academy produce some of the country's finest teams of young marksmen . . . NRA National Interscholastic Champions for 1946, with a second Christian Brothers team entry in the same event finishing third . . . outranked for second place on the basis of scores in the standing position.

There must be something in a man who can produce such results.

Yet, if Brother Austin has a formula for turning out successful shooters, he lays no claim to it. "It is just a matter of supplying the encouragement to the source of interest . . . and little else," he says. "The boys, themselves—and their parents—do most of the work . . . and Sergeant Hurley, the team coach, supplies the know-how. I just watch over things."

Admittedly, Brother Austin knows precious little about marksmanship . . . but he does know human nature . . . and he does love boys. He is as interested in the individual success of all the eighty-odd participants in the school's shooting program as are the boys themselves. He is counsellor, inspiration, and leader to them all. Actual instruction and coaching he leaves to the hulking ex-Sergeant Hurley, who led the boys to their first big title in winning the 1945 Hearst ROTC matches.

Strictly limited in his budget, Brother Austin has literally built up his program from the ground. His range, in an unused section of basement, is hardly a model of modern range construction, but it still is far above the scholastic average and unquestionably the finest of any in the Hudson Valley area. Under Brother Austin's leadership, the boys and their families produced most of the money, materials, and labor for the layout, and this fall, he is planning further range improvements—target carriers and steel plate backstops. When equipment was needed, Brother Austin applied for his school's share through the War Department's Director of Civilian Marksmanship. When more was needed, he plugged for donations from alumni and interested local businessmen. He got them. Brother Austin is not bashful, either, about calling on parents for needed transportation.

Not the least important result of the rifle shooting boom at CBA is its effect on senior activity in that section. Local club officials are elated over the steady flow of competitive enthusiasts from the pretty, red brick school on the University Hill. The only complaint: "They push us old timers pretty hard out there on the line." ◆ ◆ ◆

CONCLUDING—

ONLY YESTERDAY

By LEE ECHOLS

MEMORIES ARE GREAT THINGS for a shooter. We arrived at Chicago for the Hyde Park Y.M.C.A. Pistol Tournament and met Dr. Robert Engler for the first time. He had a huge turnout for a first-year shoot. Mel Rogers and Pete Chapman began wolfing the show; from the way they strutted around you'd never have suspected they'd been soundly beaten in California a week before. Mel broke the .45 Camp Perry Police Course record and we all began to realize that there was something to a rumor making the rounds that a .45 must be tightened up if the man shooting it expects to carry anything except good will away from the match.

We left Chicago for Buffalo and the Niagara Frontier Matches, sponsored by the *Buffalo Evening News*. . . . It was breezy but we got a solemn promise that they'd turn it off for us if we'd get ourselves back there next year. I remember a funny story about a match held there the week before. One of the Syracuse cops, Frank Lesicke, was knocking off a string of rapid fire when a wren flew across his target. Lesicke shot him right smack dab through the pimple, and the feathers, stomach muscles, and other debris cluttered up the air so badly no one could see his target. I remember there was an article in the *Buffalo News* about it and one of Lesicke's teammates was quoted as saying, "We knew from the looks of his target that he'd been sniping at things flying by, but, Jeez . . . imagine the guy pluggin' the damn thing!"

Chapman was rounding into form for Perry. The local papers said he was winning the match. They said he was an ex-cowpuncher and a grizzled old veteran and, man, did that make him sore! They saw us off to Cincinnati.

I remember arriving there for the Indian Hill Rangers All-American Championship Matches. I remember sizing up the situation and deciding right away there'd be no gravy there. Al Hemming was on hand . . . Captain Rau, later to make history in Africa and Italy, with the roughest infantry team of all time. The Cavalry Team, with Sergeant Jensen, a top-ranking shooter since they punched them in from the front of the barrel, and who could still make you wish you'd stayed with backgammon or lotto and left this pistol shooting to lads who knew more about it . . . I remember our second team joined us from Washington, D. C. and we grabbed hungrily onto one of them. He was a big, eager-faced Norwegian boy from Warroad, Minnesota, named Arnvid Anderson, and we shoved him up to our first team. He was new to us but he was a hot .22 shooter and looked like money in the deposit box with his other two guns. He shot a blistering 293 with his .22 over the National Match Course Individual, and we thought he'd got away with it but the rugged competitors knocked him down to third place. I remember Mel Rogers shooting 200 in the Timed Fire match with his Hi-Standard, but he couldn't hold together for the record, jerking a three o'clock nine on his twenty-fifth shot.

MORE MEMORIES OF THE LUSH SHOOTING DAYS OF '38 AND '39, BEFORE A WAR CHANGED THE TARGETS TO NAZIS & JAPS

I remember Al Hemming with a .45 Automatic newly worked over by that wily old slicker, Jesse Harpe, shooting a 185 slow fire for a new world's record. I remember his turning around to the gang watching him and, with that famous old grin of his, asking, "Where's the nearest telegraph office, boys?"

Memories are great. I remember the

"Walter Walsh, the coolest shooter on the line."

Joe Hankins

"Al Hemming, with that famous old grin of his."

thrill of shooting on the five-man team that broke the world's .45 record by eight points and how close we came to losing it when the Cavalry rode up one point behind us. I remember Al Hemming standing up under the roughest competition he'd ever seen and winning the Individual Grand Aggregate with the highest score of his career.

We opened at Detroit two days later for the pre-Perry Matches. The Marines were there, two teams of them. The Coast Guard boys with drawling Moe Wilson, one of the greatest pistol men who ever looked over a pair of Patridge sights . . . fresh from eastern triumphs and hotter than a warehouse fire . . . and the Detroit Police with their full strength. Big Lew Sanderson was there, Al Hemming, Shapiro, LaLonde, and that quiet, unassuming lad we'd met in Florida, Harry Reeves. The Infantry Team again. I remember Mack Garr saying funny little things on the firing line, kicking the jitters. I remember Garr saying, "My mother and father were sister and brother but huh-huh-huh, I'm all right!" I remember Garfield Huddleston. I remember him as a green kid from the Florida Matches that year. I remember his blazing across the pistol shooting scene to be the Boy Wonder of 1939 and then having to be hustled away from the matches and off to the hospital because of blood poisoning.

Gee, when you come to think of it, I can see Moe Wilson coming off the line in the .45 Individual National Match, looking like he'd just been told that his dog had been poisoned. I said, "How'd you do, Moe?" and he scowled up his puss more than ever and said, "I shot a 283." I remember telling him that this score should win the match, and I remember his replying, "No, there's some bat-headed Marine just shot a 285 a couple of targets down the line from me."

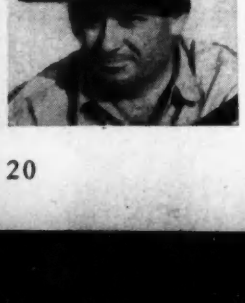
And more memories . . . I remember being soundly beaten in the .22 and .38 team matches by the Detroit Police, and I remember Al Meloche saving our very lives in the .45 team match with a sizzling 283 . . . a red-hot .45 score that gave us a three-point lead over a Marine team which was clamoring for our hides.

The National Matches started at Camp Perry, Ohio, three days later, and there we all were. Sid Hinds was there to run the range and my old friend from Savannah days, Lieutenant Charlie Densford, to assist him. The Los Angeles Police again, and I thought that I detected a look about Jones, indicating he'd brook interference from no one. Pop Ward and Jake Engbrecht were there. Joe Dirks and Lee Young. Oscar Peterson and the whole gang. The Mexico City Police were there, and Major Camara invited us all to Mexico City in February . . . I remember the fine weather and the speed with which the matches were run. I remember Emmett Jones sitting in the driver's seat all the way . . . winning the All-Around Pistol Championship with a score of 858 points, four over the record . . . taking the .38, the .45, and the .22 Slow-Fire matches. I remember someone saying they'd be afraid to have Jones throwing marshmallows at them at fifty yards. I remember he had it over the rest of us like a mesquite bush over a Mexican and he mopped up the Clark Memorial with a score of 291.

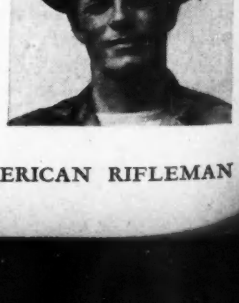
I remember Pop Ward getting sick of all this and raking the .45 Caliber Police Pistol Match out of the coals with a 286.

I remember my old friends from the New York Police Department . . . Fegin, Walsh, and Hunter; they showed

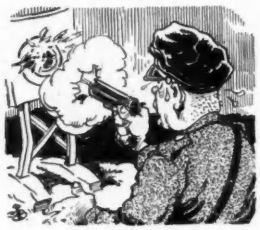
Moe Wilson



Hank Adams



Arnvid Anderson



Mel Rogers

up with a young man named Voelbel, his first year up. He scorched his way to first place in the Center-Fire Medalist, against the field, with a score of 289.

There was Hank Adams, who started me off in pistol shooting in San Diego in 1935, and there was Walter Walsh, the coolest shooter on the line, and our Treasury Team acquired a boy from Puerto Rico named Pepe Rua who knew more about getting that certain stuff out of a guitar than anyone I could name offhand.

There was our Treasury Department orchestra, with a tentful of folks every night in Squaw Camp, knocking off the corny cantatas and singing bawdy roundelays that would have curled the wings on the Angel Moroni, and I remember the trips to Sandusky and Port Clinton at night and the dances and the funny little impromptu parties, and how evenly divided the team matches were. Los Angeles won the Sobel Trophy, Treasury won the Colt Trophy, Los Angeles won the NRA Revolver Team Trophy, Detroit Police won the Interstate and Interservice .45 Automatic Pistol Team Trophy. I remember little Mel Rogers finding out that someone had fired a score of 294 in the .22 National Individual and now he girded up his loins and pulled a 296 out of his hat. I remember going into the last string of Rapid Fire in the National Individual, needing a forty-eight to tie for first place. I remember the sales talk I gave myself and how the courage and strength flowed into my good shooting arm. I remember mentally forcing myself to squeeze them off as well as my limited ability would allow, and finding that I'd fired a forty-nine. I remember wishing to God I'd saved one bullet to crash into my brain when I learned I'd fired them all on the wrong target.

I remember Buck Buchanan, the famous Los Angeles gunsmith, betting me ten dollars he could pick out the high man in the International Team Match before they fired it. I remember he chose Charlie Askins, who shot 'em all rapid fire and made the rest of the boys look like Ned going for milk.

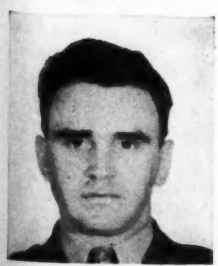
And there was the Remington ammunition store, with Hicks, Flannigan, and Leahy putting out the refreshments and the small talk, making it the rendezvous of the camp. I remember Clem Theed and Kelley from Coral Gables, and Bill Martin. They brought an alligator from Florida about the size of Marie Canfield and insisted that Al Meloche and I take it back to Arizona with us. I remember it scared the hell out of me when Meloche put it in bed with me. It had the coldest hands.

I remember the blustery rainy day of the National Pistol Team Match and the Marines winning it with 1315, a fine score for the weather.

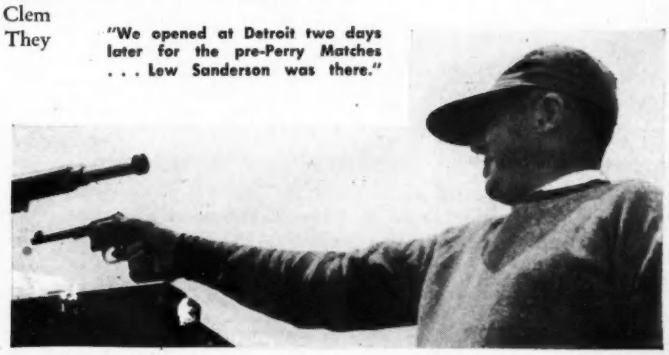
Yes, memories are great things for a shooter. Theodore Roosevelt one said, "The old days were great because the men who lived in them had mighty qualities." My memories take me back to that 1939 session at Camp Perry. Germany invaded Poland while we were there; England and France declared war on Germany. We sat in a tent one rainy day in Squaw Camp and pondered over things to come and reminisced over carefree days which had gone before. There was Hank Adams. He didn't have a good season at Camp Perry that year. He didn't win a match. In 1935 he had won the National All-Around Pistol and Rifle Championships. He had distinguished himself many times before, but in 1939 he didn't do much . . . Hank killed over 200 Japs in seven major landings from Tulagi to Pelelieu . . . There was slow, gentle Joe Hankins. He ramrodded the Marine Reserve Rifle Team . . . Joe waded ashore on five Pacific beachheads from the dire days of Lingayen Gulf 'till a Jap sniper's bullet snuffed out his life on Pelelieu and he died in the arms of Hank Adams . . . There was Red Dyas . . . Congressional Medal of Honor winner who shuffled off this mortal coil breaking down a Jap machine-gun emplacement . . . Sergeant Heath . . . Gee, we'd all taken lessons from him . . . Killed on a Pacific island none of us had ever heard of in 1939 . . .

Yes, memories . . . the little things. Memories are the spider webs of nostalgia that reach back through the yesteryears and imprison again in th mind the little things which never seem important at the time, but which slowly mellow and become the very substance of the past. Sometimes they are as funny as hell, and sometimes they are as cruel as the crooked-bladed knife of Genghis Khan. ♣ ♣ ♣

Sgt. Heath



"We opened at Detroit two days later for the pre-Perry Matches . . . Lew Sanderson was there."



The NAVY returns to the RANGES

Under Navy's new marksmanship program, these trainees will continue their shooting as long as in uniform.

THE NAVY, WHICH NEGLECTED small-arms training for twenty years prior to Pearl Harbor, is coming back to the small-arms ranges.

All during the lean years of Navy small-arms practice the Academy at Annapolis carried on with college rifle teams that blazed their way into frequent national championships and college "All American" selections. But, when the rifle-shooting Midshipman graduated to become an Ensign in the Fleet, he found no further use for his shooting ability.

The war changed a lot of ideas in the Navy. One of the war-forced "discoveries" was that a working knowledge of small arms and their use was a good thing for the morale of the "boot" in training and a vitally *necessary* thing for that portion of naval personnel which engages in amphibious operations.

Two important steps have now been taken by the Navy to develop more and better small-arms instructors, and to increase interest in small-arms practice throughout the Navy.

The first step was to incorporate an improved program of small-arms instruction and competition in the expanded Naval ROTC program. NRA official indoor targets were adopted for both rifle and pistol firing and the Naval ROTC championships were placed under the supervision of NRA Official Referees.

The second step was the rewriting of chapter 19, Navy Landing Force Manual. Chapter 19 is the over-all guide and directive for Navy small-arms training. The new publication announces the official adoption of the Garand by the Navy and establishes the following qualification course:

COURSE B—RIFLE EXPERT

Range	*Time Limit*	*Shots*	*Target*	*Position*	*Sling*
200 yds.	None	4	A	Standing	Hasty
"	"	4	A	Sitting	Loop or Hasty
"	"	4	A	Kneeling	"
"	60 secs.	16	D	Sit. from Stand.	"
"	"	16	D	Kneel. from stand.	"
300 yds.	65 secs.	16	D	Prone from stand.	Loop
500 yds.	None	8	B	Prone	Loop

Total Shots record firing	68
Maximum Score	340
Expert (medal award)	306
Sharpshooter	292
Marksman	268

Even greater forward steps have been taken in the Navy's new pistol and revolver courses. The absurd use of the rifle "B" target for pistol qualification has been eliminated and the Navy has moved a step ahead of the Army by adopting the Standard American target for its pistol shooting. The seven-shot string has been eliminated in the pistol course, and the standard five-shot string substituted. Unfortunately, and for some reason not readily understandable, the revolver course calls for six-shot strings. The new Navy handgun courses are:

COURSE E—PISTOL EXPERT (.45 CAL.)

Range	*Fire*	*Time Limit*	*Target*	*Position*	*Shots*
25 yds.	Slow	None	25 yd. Std. Amer.	Stand.	10
25 yds.	Timed	20 secs. 5 shots	"	"	10
15 yds.	Rapid	11 secs. 5 shots	"	"	10
25 yds.	Rapid	15 secs. 5 shots	"	"	10

Possible Score	400
Expert (medal awarded)	300
Sharpshooter	280
Marksman	220

COURSE F—REVOLVER EXPERT (.38 CAL.)

Range	*Fire*	*Time Limit*	*Target*	*Position*	*Shots*
25 yds.	Slow	None	25 yd. Std. Amer.	Stand.	12
25 yds.	Timed	25 secs. 6 shots	"	"	12
15 yds.	Rapid	15 secs. 6 shots	"	"	12
25 yds.	Rapid	20 secs. 6 shots	"	"	12

Possible Score	480
Expert (medal awarded)	360
Sharpshooter	336
Marksman	264

An important change has also been made in the requirements for Navy Distinguished Rifleman and Distinguished Pistol Shot. It is planned to resume U. S. Fleet competitions in 1947. When these competitions are under way, it will be possible for a Navy man to earn two "legs" on Distinguished in Fleet competition, the third leg being acquired by competition in the National Matches. Under the old provisions it was necessary to acquire all three legs on Distinguished at the National Matches. Because naval service takes men all over the world and keeps them at sea over long periods of time, it was almost impossible for Navy people to become Distinguished Marksmen. The new plan should place the rating within reasonable reach of anyone who will work for it.

Though practically unknown to the present generation of shooters, the Navy has in the past had its rifle and pistol shooting "greats." Perhaps in the not-too-distant future a new generation of Navy marksmen will be carrying on the tradition of the Lees, Osbornes, Wilsons, and Mummas, who asked no quarter from the best that the Army, Marines, and civilians could muster. ♦ ♦ ♦

Care of the FOREIGN DOUBLE GUN

By COLONEL E. H. HARRISON

THERE ALWAYS HAVE BEEN a few sportsmen in this country willing to pay the prices of fine English or Continental shotguns. Now the circumstances of war have placed foreign guns in the hands of more Americans than ever before. Some of these are fine pieces, and all of them are interesting.

It is true that in ultimate strength and endurance they are seldom the equal of the standard American shotgun. However, the fact that such guns may not have the strength of an American piece does not mean that they are short-lived. The time that one will last depends entirely on the care that it receives. The suggestions given below contain those things by which it can be made to last at least as long as the owner. It may be noted that they apply to over-under and three-barrel guns, as well as to the side-by-side double.

With modern ammunition, the only bore feature to which special attention should be paid is the streaks of lead which at times appear in any gun. These really should be removed because of the possibility of their causing local corrosion through galvanic action. When lead and iron are in contact, it is the iron which is attacked. The Tomlinson cleaner or a strong brass or bronze brush will do very well. A steel brush may scratch the bore, and should never be used.

Fig. 1—The author demonstrates the proper way to check a gun for looseness or shake caused by worn parts.

To keep the finish in its original condition, it is necessary only to have an oily or greasy wool rag or piece of sheepskin available where the gun is kept, and wipe the exterior metal parts with it after handling.

The action bodies of many guns are finished in casehardening colors. To protect these against wearing away (they are not so durable as blueing or browning), the maker covers the surface with a special varnish. This should be renewed when the gun is given the annual overhaul suggested below. It is wise to keep powder solvents off the varnish, for obvious reasons.

On many recent guns the bodies are finished in silver gray. This requires only the same care as that given to blued surfaces, and has the good point that worn spots remain inconspicuous.

The linseed-oil treatment formerly recommended by our gun writers (it is significant that it is not mentioned so often nowadays) was a justified reaction to the varnish put on American factory stocks. In recent years various concoctions of tung oil, shellac, cup grease, et cetera, have been developed which can be made to give excellent results. It is simpler, however, to use a hard wax, such as the Simoniz so successful on automobiles. Such a material produces a surface which sheds water and dirt well, resists scratching as well as any surface can, is easily renewed, allows the full beauty of the stock to show, and never darkens nor softens the wood.

In considering the maintenance of the remaining important part of the gun, the action, it is necessary to note the different types of mechanism in use.

A couple of generations ago, almost the only fine double guns available in this country came from abroad. Now, however, we all know that guns as fine as any are made here at home. Our guns have followed lines of development somewhat different from those in England and Europe, particularly as regards the system by which the gun is bolted closed. The rotary top bolt of the L. C. Smith, the Fox, and the Ithaca, and the special underbolts of the Parker and the Winchester, are now practically everlasting and trouble free. The remarks from this point on apply to English and Continental guns, with their more old-fashioned systems of bolting.

Doubles are universally classified as either side lock or box lock, the latter being Anson & Deeley or Blitz. The side lock is the finer, and also the more expensive. There is considerable difference in these constructions, but from a maintenance viewpoint this difference is not important. It is a difference in firing mechanisms principally, and neither kind of firing mechanism is much subject to wear or deterioration.

The best makers recommend a factory cleaning of the locks once a year. While the European maker may be inaccessible, most good American makers will overhaul guns other than their own, and the reliability and reasonable cost of their work make it highly desirable. If the owner has properly fitting screw drivers and the necessary mechanical experience and skill, there is nothing against his doing this himself. But unless there is some genuinely qualified person to do the work, then by all means the locks should be left alone.

While there is little trouble in the maintenance of the locks of a double gun, sometimes with age there arises a mechanical problem in its bolting system.

What happens is that certain parts wear enough to cause a disagreeable shake, in which the barrels can be worked up and down slightly with respect to the body of the action. This formerly was much more common than it is today, but it still happens all too frequently with European guns.

The fundamental system of bolting in foreign guns is the double underbolt, Figure 2. This is used without additions

THE AUTHOR: Edwin H. Harrison is a Colonel in the Ordnance Department, stationed at the Aberdeen Proving Ground, where he is chief of the small arms and ammunition division. During the war, Harrison held various ordnance posts in North Africa, Belgium, France, Germany and Czechoslovakia. He is an enthusiastic shooter, and holds the Distinguished Pistol rating.

in the best English guns. The only American gun doing the like is the comparatively new Winchester double, an extremely successful gun. A rectangular bolt underneath engages the two square notches in the lugs under the barrels, and is pulled back out of engagement when the gun is to be opened. It is obvious that the forward notch is so close to the hinge that it is at a tremendous mechanical disadvantage and is of little use, but the European makers always put it in. Winchester and Parker do not fool with a forward notch.

Fig. 2—Double underbolt, the fundamental system of bolting in foreign guns.

In the endeavor to prevent the development of shake in the action, various elaborations of the bolting system were developed.

The first of these additions to appear was the doll's head extension, shown in Figure 3. In this arrangement a lump on the end of the extension enters a recess in the top of the standing breech when the gun is closed. This is occasionally met with in European guns, and in America is used by the famous Parker.

Next there is the Greener cross bolt, shown in Figure 4. The cross bolt is connected to the top lever, so that when the latter is pushed over by the gunner, the cross bolt is moved to the left at the same time the underbolt is drawn rearward. The system of underbolts and Greener cross bolt is used on more European guns, by far, than any other style.

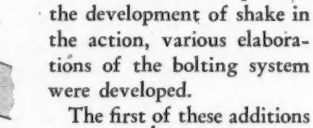


Fig. 3—Doll's head extension was first attempt to strengthen locking system.

A different arrangement is the Purdey top bolt, shown in Figure 5. The extension is smaller than in the other types. The bolt operates on a hold-down basis, the forward end of the top lever being extended into a lug which lies across the top of the extension when the gun is closed, but is moved aside when the lever is pushed over to open the gun.

While the above are the principal systems, it should be noted that there may be considerable variation in detail. Purdey side clips (called *ailerons* by the French) sometimes are used on the sides of the standing breech with the idea of preventing lateral movement of the barrels. The doll's-head extension sometimes is combined with the Greener cross bolt. On over-under guns it is quite common to find a double cross bolt, there being two extensions, one on each side of the top barrel. In such cases the underbolt may be omitted, this being practically the only case in European guns of relying entirely on a top fastening. The trend in American guns has long been in this direction. In considering the following, it should be kept in mind this does not apply to American guns with top fastenings of the self-adjusting type.

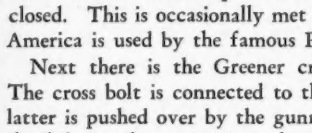


Fig. 4—The Greener cross bolt is commonest system used by Europeans.

The point that now must be brought out is that the various systems of Greener, Purdey, et cetera, often fail to add anything to the durability of the action. The reason is a simple one. In order to be effective, the top bolt would have to bear on its working surfaces at the same time that the underbolt bears. The quality of workmanship necessary to accomplish this is of a high order, so that it is not met very often. I dare say that in not 10 per cent of European guns, all kinds being considered, does the top bolt bear. This can be tested very easily by lightly smoking the bearing surfaces of the top bolt with a candle flame, and closing the action. Examination of the surfaces then will tell the story. In the rather unlikely event that the top bolt bears, the action may be expected to prove extremely durable. But if it does not bear, it might as well not be there; and care of the action should proceed on the basis of the underbolt only.

To do this successfully, it is necessary to take account of the fact that double guns do not bolt up quite in accordance with appearances. When one examines a gun which is quite loose, so that the barrels visibly move up and down, it is natural to conclude that the underbolt has worn so that it no longer holds the barrels down to the frame. Rather oddly, this conclusion generally is incorrect. The reason is that the contact between the underside of the barrels and the horizontal surface of the action is not the controlling factor in jointing the gun during manufacture. The controlling factor is the contact between the ends of the barrels and the vertical breech face (Figure 6).

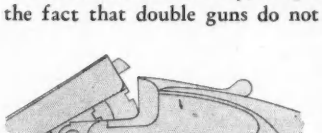


Fig. 5—The Purdey top bolt was developed by a famous English gunmaker.

That can be demonstrated quite easily by building up the hinge or cross pin, and noting results. Cut bits of thin metal foil to lie on the exposed part of the cross pin, holding them in place with a drop of oil until the barrels can be put on. When the proper thickness is reached the gun will close with a perfectly clean and solid sound, and all shake will be gone.

Any incipient looseness is detected as follows. Hold the gun upside down in the position shown in Figure 1. With the left forefinger, pull the top lever over, so that the bolt is out of engagement, then shake the gun from side to side. If the gun breeches up properly, it will feel solid. But if it does not, the barrels will be felt to shake in the action. This movement takes place because the cross pin no longer holds the barrels back against the breech face.

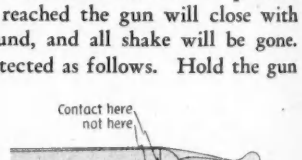


Fig. 6—Controlling factor in proper breeching lies in perfection of fit between the barrel ends and breech face.

The correction of a loose action is quite practicable, and in fact relatively simple. It is done by replacing the cross pin with one of increased diameter.

We have seen already how the amount of looseness can be determined by laying shims on the bearing surface of the cross pin. This determination holds good even when the looseness is so incipient that it can be checked only by the method shown in Figure 1. In such a case the total thickness required will be .002 inch to .003 inch. When the action is visibly loose, considerably more may be (*Continued on page* 31)

FOR BETTER SPORT: *HANDICAPPING*

HANDICAPPING HAS A DEFINITE PLACE in sports. Horse races, tennis matches, golf tournaments, foot races, in fact most popular competitive sports in which participants are of widely different ability, are handicapped to prevent someone of outstanding prowess from winning match after match. Of course, large championship matches are open to all-comers with no handicaps given. What is the sense of Sam Snead and Byron Nelson being handicapped when playing one another in the U. S. Open? But, if Snead entered your local golf club's tournament, how many of your ninety and 100 golfers would play against him without his being handicapped?

This sort of thing happens quite frequently in rifle or pistol club matches and leagues. And the majority of the clubs do nothing about it. They continue letting the high-average shooter compete against the low-average one and use the classification system as a means of limiting competition to those of approximately the same caliber and as a method of distributing prizes among them. But handicapping . . . Ha! The low-average shooters are all for handicapping their league but the high-average shooters say to them, "No, handicapping would give you fellows with big handicaps an advantage."

When competitive shooting was in its infancy, the need for some sort of handicap system was quickly seen. But seldom has one been in use. Most attempts at a handicap system were in reality methods of distributing prizes, such as the Lewis System common even now to trapshooting. The "kicker's handicap" was an arbitary attempt at some sort of handicapping. Other so-called handicap systems were not systems at all, having more or less the same arbitrary basis for determining handicaps. None of these could or did stand up under usage because of their numerous faults.

About '36 or '37, the present classification system was instituted. It has its faults, as did the others, but it is an improvement on them. It is not a handicap system; merely a system of classifying shooters according to their abilities and letting them compete against others of approximately the same ability. Under it, match winners are still determined in open competition.

Classification is an excellent system for distributing prizes in registered matches of importance. But it is not adapted to intraclub or league competitions. And that is the type of competition in which most club members participate. Shooters in clubs and leagues usually fall into definite and distinct categories of ability. Jim can always be counted upon to turn in a possible prone and a ninety offhand in a gallery match. He will always turn in at least 390 in a Dewar match. But Willie shoots ninety prone and sixty offhand in a gallery match, and his Dewar score is somewhere around 350. It is ridiculous from Willie's point of view to shoot in match after match which Jim will always win. Willie's interest in the sport wanes. He is frequently absent from a match, and that frequency increases until he drops out of the club completely.

"Says he's always more accurate in the prone position."

The most practical system of handicapping that shooting has seen is that set forth in THE AMERICAN RIFLEMAN, October, 1939, by Robert K. Leavitt, "Handicapping on Merit." The principle upon which his handicapping is based is this: *The winner should be the one who shows the greatest percentage improvement over his average performance.* In this way, the high-average shooter will not consistenly win events by just shooting his average. If a low-average shooter shows a greater percentage increase over his average than the high-average shooter, he is ranked higher than the high-average shooter. No matter if your average was 98 and mine was 90 and you shot a 99 (50 per cent improvement) while I score 94 (only 40 per cent improvement), you would be match winner. But if you scored 99 (50 per cent improvement) and I shot a 96 (60 per cent improvement), I won the match. This system is fair to both high-average man and low-average man. Per cent of improvement over your average is the basis of determining the winner.

In the intervening years, this system has gained in favor. Winchester and Western Cartridge Company have devised handicap booklets based on this, which they will issue to persons requesting them. Some clubs have used this handicap system for their intraclub matches. Some leagues have adopted it for their league matches. And they all report favorably on it.

Here is what one club officer has to say concerning the use of this dropped-point handicapping system:

"When the range officer at the Twelfth Precinct Pistol Club, Washington, D. C., suggested holding Sunday matches, one of the members said they might as well give the prizes to Doc Cook and save the others the trouble of shooting. However, another member suggested that we use handicap scores based on the tables compiled by Mr. Tiefenbrunn of the Western Cartridge Company. So, we held a trial match to establish averages and then shot the regular matches with one dollar registration fee for each, the money to be divided among the high three. When Scanlon, who entered the first match with an average of 200 and shot a score of 240, won the match with a handicap score of 290.442, he was the most surprised man among the competitors, but there was the score to prove it. His adjusted average for the next match was determined by averaging his first average with the score he shot in the match. This system was applied to all competitors.

"We were off to a good start and shot on this basis every week all summer. Everybody liked the system

(*Continued on page* 34)

HANDGUN IMPROVEMENTS

By BILL KIRSH

EVEN IF YOU ARE the satisfied possessor of a fine Smith & Wesson or a well-balanced Colt, you may, if you have the instincts of a born gunsmith, find certain things you will want to change.

To those home gunsmiths who feel the urge to attempt improvements, I am passing along this information gathered through twenty years of similar work with firearms, much of which has turned up most gratifying results on the firing line.

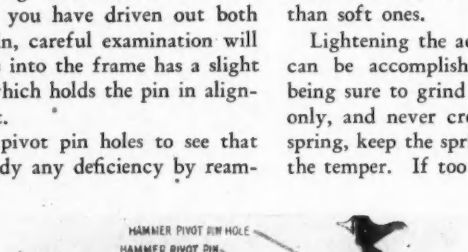
For best trigger action on either Colt or Smith & Wesson revolvers, the pivot pins must be fitted to very close tolerances.

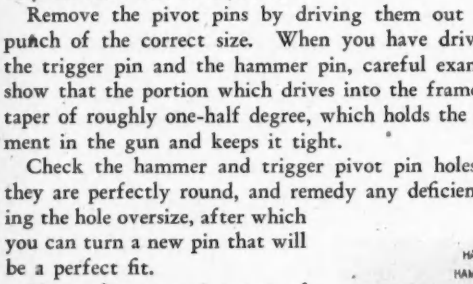
With either the Colt Official Police Revolver or the Colt Officer's Model, any looseness that may exist in the pivot pins may be corrected as follows:

Remove the pivot pins by driving them out with a steel punch of the correct size. When you have driven out both the trigger pin and the hammer pin, careful examination will show that the portion which drives into the frame has a slight taper of roughly one-half degree, which holds the pin in alignment in the gun and keeps it tight.

Check the hammer and trigger pivot pin holes to see that they are perfectly round, and remedy any deficiency by reaming the hole oversize, after which you can turn a new pin that will be a perfect fit.

Turn the new pins out of drill rod, to fit the hammer and trigger with a really snug fit. The closer the fit, the better the action. Then, without removing the pin from the lathe, turn the tapered part that fits into the frame of your gun, measuring the old one with a micrometer and leaving the new one at least two thousandths oversize for a drive fit. After you have brought the pin to the proper size, turn a slight bevel on the end where your punch will drive it into the frame. Use a brass punch, of course.





In reworking Colt (above) the trigger and hammer pins may be driven out with a steel punch of the correct diameter

Smith & Wesson pivot pins (left) are fitted in special locks, and a split screw driver must be made for removal

For maximum smoothness of action, use fine crocus cloth to polish the parts where they work together. When reassembling the gun, apply a bit of Rig or some other good gun grease, which, in my experience, holds up better than most gun oils.

In reworking a Smith & Wesson you will encounter a complication in connection with the way the pivot pins are installed. Both the hammer and trigger pins are put in with a screw-type lock, and they require a special split screw driver to remove them. This you will have to make.

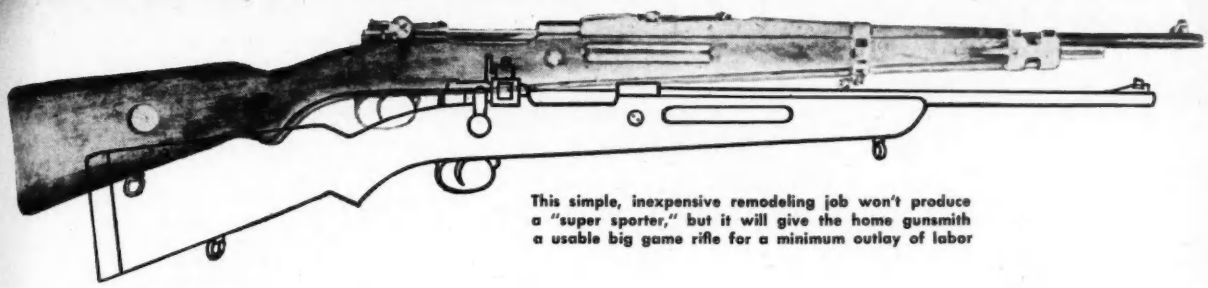
Another method is to bore the pivot holes oversize and make a bushing that fits the trigger pin perfectly, inserting the bushing into the parts with a press fit. Two thousandths press fit on the outside is sufficient.

I do not recommend polishing the hammer and trigger of the Smith & Wesson to smooth up the action. These parts are casehardened on the surface and if this hard skin is removed, the soft metal underneath will wear much faster. Moreover, hard surfaces rubbing together have a better action than soft ones.

Lightening the action of either the Colt or Smith & Wesson can be accomplished by grinding the mainsprings thinner, being sure to grind the flat surface the long way of the spring only, and never crosswise or on the side. If you do grind a spring, keep the spring cooled with water so you do not remove the temper. If too much metal is removed in this way, it will result in misfires, so this method should be used with caution.

Like the revolvers, the trigger pull of the .45 Automatic can often be improved by making new pivot pins for the hammer and sear that are a more perfect fit. These should be made of drill rod, as it contains a high carbon content and will give long service.

If your Colt Woodsman needs attention, it can be handled in the same manner as mentioned for the .45 Automatic, by fitting a new pivot pin to the sear, with close tolerances. Improvement in the hammer action is accomplished by rebushing the hammer and reaming the pivot hole so that it is a perfect fit on the safety lever pin. To do this, heat the hammer to a dull red and immerse in lime until cooled, then bore the pivot hole oversize. The next step is to turn up a bushing so that it is at least two thousandths larger than the hole, using drill rod as the material. This will give a press fit in your hammer. Now, without removing this from the lathe, drill and ream your pivot hole so that it is a perfect fit for the pin. Do not forget to harden the hammer after you have pressed the bushing in. To do this, heat to a dull red and plunge in clean water, then polish with a fine emery cloth and reheat until a straw color appears. Then again plunge it into water. Bear in mind, when making any changes on your firearms, that you must always keep checking as you make the alterations. Constantly try the parts for fit. If this is done cautiously, you will not run the risk of ruining your gun. ♦ ♦ ♦



This simple, inexpensive remodeling job won't produce a "super sporter," but it will give the home gunsmith a usable big game rifle for a minimum outlay of labor

CONCLUDING MORGAN HOLMES' ARTICLE ON

Remodeling the MILITARY MAUSER

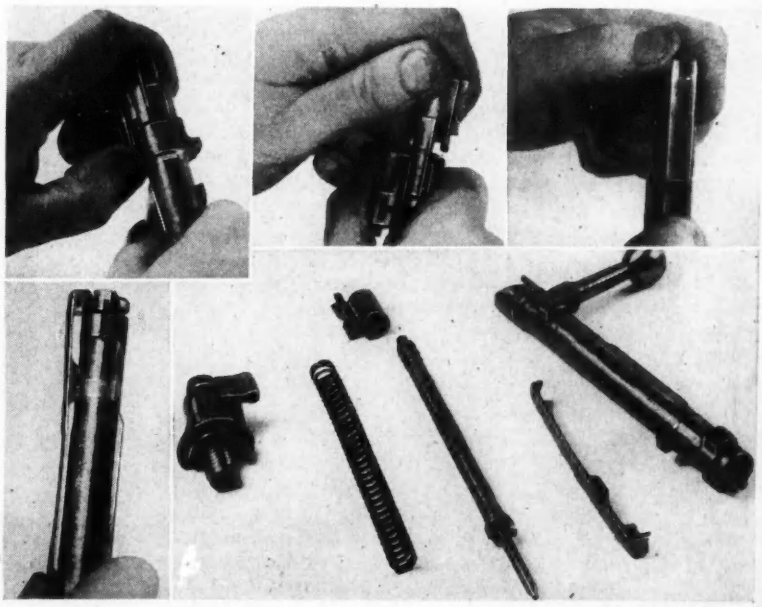
IN REMODELING YOUR MAUSER, you may wish to increase the length of the stock and make the recoil a little easier on your shoulder. A recoil pad will do both jobs. We will have to approach the recoil pad job with some forethought. They are nasty things to get right, at best, and this is written particularly for the amateur who has few tools available to do the work. Cutting an oversize pad down to stock size cannot be done without a high-speed abrasive wheel, so we must do the best we can without this equipment.

Remove the butt plate and cut off enough of the butt to get rid of the recess made for the lip of the original plate, and at the same time to give the correct pitch and stock length *with the pad attached*. The man who has not studied pitch and does not know just what he needs can be pretty well fitted with a pitch of from two and one-half to three and one-half inches on this rifle.

Now, take your stock to some dealer who has a good assortment of recoil pads on hand. Choose one that is a little smaller than the butt of the stock. If one is available that is slightly smaller than the stock at the heel, with a good tapering shape to the toe and not longer than the butt, it will do. Spot the pad to the stock with lampblack until it fits evenly over the entire surface. Next, hold the pad against the stock, as closely centered as possible, and mark through the pad to locate the spot for the upper screws. Drill the hole as you did for the stock swivel screw, use soap on the threads, and turn in the screw until it is snug against the hard base of the pad. Locate the other hole and set the screw in place. Then, remove the screws, glue the pad to the stock, and set the screws. Do not set them too tight or they may crack the pad.

It may be necessary to cut the pad a little, particularly around the toe. A small amount can be removed by using coarse sandpaper wrapped around a light stick or ruler. Use fast, light strokes over the pad and finish it with finer sandpaper, handled the same way. Cut the stock down to the pad with rasps or files, using the straightedge to get the stock lines straight from the butt up to the grip or comb.

Next, go over the whole stock with medium sandpaper. Work out as many of the scratches and other mars as possible and still keep the stock lines straight. Wet the stock to raise as much grain as possible and dry quickly over a gas flame or similar quick-drying heat. Be careful not to burn the wood. Just evaporate the water as quickly as possible. Go over the stock again with the same sandpaper. Keep at it until the

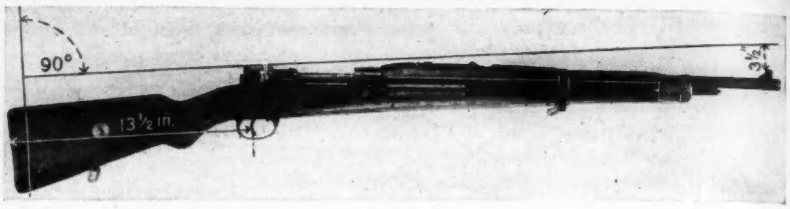


Frank Triem photos

Dismounting Mauser bolt can be tricky. Here's how it is done: (Top left) Unscrew the striker, striker spring and safety housing. First turn requires pressure on small stud on sleeve. (Top center) Put tip of striker on surface of bench, pull sleeve down against spring tension, and turn cocking piece to right. It can then be lifted clear of striker. (Top right) To remove extractor, hold bolt in right hand, press with right thumb on point about one third length of extractor, and with left thumb turn extractor and collar as far as they will go. Tip of extractor may then be sprung up until it rides out of circular slot cut in bolt head. Turn extractor a bit farther and (Lower left) with right thumb, shove extractor forward, freeing it from lugs on extractor collar. (Lower right) Here it is, completely stripped except for safety, which remains on sleeve.

grain does not rise any more. Once the grain has stopped rising, sand the stock with increasingly finer grades of paper until the marks made by each previous paper are removed. The final paper should make the stock feel slippery to the touch, with all marks and scratches gone.

Stocks of very light-colored wood will look better if they are stained. Any commercial stain will do. Acid stains such as Johnson's Wood Dye will penetrate deepest. Directions on the label will do for applying. After the stain has completely dried, we can start with the finish.



Correct pitch of stock can be determined by laying rifle on a large sheet of wrapping paper and scaling out lines as shown here. Average pitch is between 2½ and 3½ inches. Usually, stock length of 13½ inches is about right.

For a stock finish, use boiled linseed oil or boiled oil and spar varnish, half and half. Most of these Mauser stocks are too soft to finish with raw oil. Apply a fairly heavy coat of the finish and then let the stock dry until it begins to get a little sticky. Rub briskly with the palm of your hand until the finish is smooth over the entire surface. The spots that were reworked will absorb more oil than the rest of the stock and will have to be given extra applications until they are filled and can catch up with the parts of the stock which were just sanded and have some of the original finish left in the wood. Apply coats about a week apart, rubbing each one briskly, until the grain is filled and shiny.

Left: Removing front hump (a) on Mauser trigger gives heavy, short pull. Grinding off rear hump (b) gives lighter pull

Below: By grinding end of magazine follower as shown, bolt will slide over follower without trouble when magazine is empty

The stock can be used this way, after it has been allowed to dry thoroughly, or it can be smoothed up further with pumice powder and grease or sweet oil. To do this, apply a little grease or oil to a piece of felt, shake on a little pumice and rub *with the grain of the wood* until a smooth, even surface is attained. Then, when your stock has dried thoroughly, and is no longer sticky to the touch, the rifle can be assembled and you will be surprised at its better feel and handling qualities.

Further improvements would be to bend the bolt handle down to a more handy location on the older models and to touch up the trigger pull on both models. Bending the bolt properly cannot be done without the quick, intense heat of a welding torch. In my experience most ordinary welders are too careless to do this work, and it had better be trusted to a gunsmith who has a torch. But be careful.

If you feel you can do it yourself, here are the directions: First, strip the bolt. To do this cock the rifle by closing the bolt, and put the safety in the upright position. Take the bolt out of the rifle. Unscrew the bolt plug which will carry out the firing pin with it. *Warning:* Do not let anyone heat the bolt of your rifle. Any change in the original heat treatment is dangerous and may prove disastrous. Even the cocking cam which is close to the bolt handle must be kept cool. Wrap the bolt in asbestos or rags, and push some of the material inside of the bolt. Put soft copper over the vise jaws and fasten the bolt in the vise in such a position that it will allow you to put considerable pressure on the handle when you are ready to bend it. Special bending fixtures are best, but for one job it would hardly pay to make them. A piece of pipe that will just fit over the bolt knob can be used. With the bolt securely fastened in the vise and the handle located so you can slip the pipe on it, saturate the asbestos or rags with water and keep a pailful handy. Apply the torch to the handle close to the bolt. The flame should be hot enough to get this a cherry-red color in a few minutes. While the heat is being applied, have someone else keep soaking the material around and inside of the bolt. The torch will evaporate the water very quickly and it will have to be replaced as fast as it dries. When the handle is a good bright red up near the bolt, slip on the pipe, which should be a couple of feet long, and bend the bolt down to the required position. It may be necessary to go at it a couple of times before it is located just where you want it. When you are finished with the bending, allow the bolt to cool and then polish with abrasive cloth.

For the man who has had no experience with the military trigger, there is only one safe way of getting a single pull and eliminating the long preliminary drag.

Take a look at the top of the trigger. You will find two

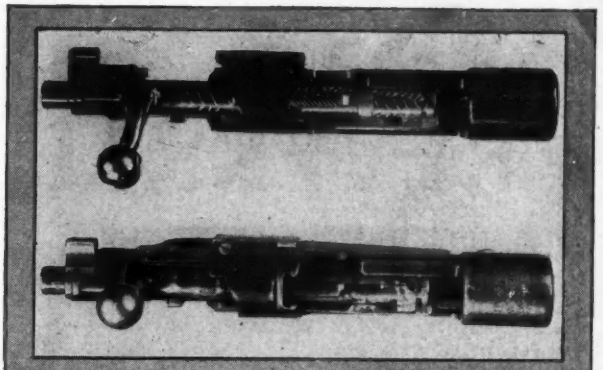
bumps on it, one at the extreme rear edge and one farther forward. Decide which of two types of pull you would prefer—a short, heavy pull or a longer, lighter pull. By grinding down the front bump you will finally get a heavy, short pull. By grinding down the rear one, you can get a lighter pull, but one that will have to travel further to release the firing pin. I personally prefer the rear bump method.

After either bump is ground down so that it alone is doing the work, we can turn to the trigger guard. You will notice that the guard has been milled out inside, above the trigger. File out a piece of steel to slide in this recess. It can be any thickness, just so it does not protrude above the top of the guard; one-sixteenth inch will be strong enough and easy to shape up. It must be long enough to accomplish the following adjustment: Drill a hole in the guard just ahead of the trigger slot and thread it. The best size would be a 6-48. One of these screws, a No. 31 drill, and a tap can be purchased from the Lyman Gun Sight Corporation. This is the standard sight screw used for the famous 48 sight, and for scope blocks. I suggest the size because the fine threads will hold better under recoil than those of coarser size.

With the screw fixed up, cut a slot in the piece of steel to allow this screw to pass through it. You can now keep pushing this plate back against the trigger until most of the original pull is gone, and lock it there with the screw. The best part of it is that if you go too far it is necessary only to release the screw again and set the plate a trifle forward, and nothing is ruined. Once again I feel obliged to use that word *caution*. Going too far in eliminating the drag is very dangerous and can cause the rifle to fire when the bolt is closed. Use good horse sense here, and be satisfied with a little movement in the trigger, rather than having the rifle fire more or less when it pleases.

Finally, when the pull seems about right to you, slam the bolt home a few times as hard and as fast as you can. If the pin slips past the sear and does not cock, the adjustment is much too fine. Another test is to put an empty cartridge in the chamber and close the bolt, then pull up on the bolt at the rear end either by the plug or the cocking piece. If it slips over the sear, it is set too fine. In other words, do everything you can to make the rifle fire without pulling the trigger. When you feel assured that it is safe, be satisfied with the pull.

You may also wish to smooth up the action. Again there will be much more work on the later model than on the old ones. First, remove the firing pin and bolt plug as directed before. Keep the safety in the upright position and press down on the plug with the firing pin tip resting on a piece of wood or bench top. When the plug is down far enough for the cocking piece to be turned, twist the cocking piece one quarter turn and lift it off the pin. Then, the bolt plug and firing pin spring can be taken off the pin. Remove rust or other roughness with abrasive cloth and then wash the parts in kerosene. Take fine valve-grinding compound and apply it to the bolt, cocking cam, and threads on the bolt plug. Reassemble the bolt. *But do not get any abrasive on the faces of the bolt lugs. This will increase head space.* Insert the bolt in the receiver and work the action several hundred times. While doing it, hold back the trigger so that the action is cocked each time the bolt is raised. Then remove the bolt, disassemble it completely, and wash the bolt and receiver. Be sure to remove all the abrasive. This procedure should be repeated with a very fine powder, such as crocus, and the bolt worked for an hour or more in the same manner. Finally, give it another good washing in kerosene. Be certain to get every part good and clean, particularly up inside the receiver in the bolt lug channels. Then dry the parts and assemble.



Remodeling jobs which can be handled by clever home gunsmiths are exemplified by this Czech Mauser action, shown "as is," below, and after remodeling, above. The work was done by amateur gunsmith George Crossette of Washington, D. C. Changes included filing trigger guard to narrower, more graceful shape, filling hole on front face of trigger guard and reshaping, reshaping bridge of receiver and polishing and rebluing of other receiver surfaces. The receiver was quite hard, and the surface hardness had to be ground off before it could be filed to desired shape. The bolt handle was heated and bent down and slightly to the rear. After packing in wet asbestos paste, the bolt was heated with an oxy-acetylene torch for approximately 30 seconds, on the spot where the bend was to come, and the bending was accomplished with ordinary pliers. As described in Morgan Holmes' article, all of the work was done by an amateur, with the tools normally available in a small home workshop. ◆ ◆ ◆

It is a nuisance to have to depress the magazine follower each time the action is closed when unloaded. You can remedy this easily. Remove the floor plate from the guard. Grind the rear corner off of the lip of the follower. Start forward about a half inch and shape it in an even, convex curve down to the rear bottom edge of the follower. Polish it as highly as you can. Now, when the floor plate is replaced the bolt will climb up over the lip without any manual aid.

The bolt can be polished with strips of aloxite or fine Carborundum cloth, using a shoeshining motion, which will help give it a slick feel and improve its appearance.

I think this covers most of the jobs that can be done without the aid of special tools and experience, and is sufficient to give us a practical hunting rifle. After working the action over, your Mauser should be polished and blued. So much has been published about this that anything I might say would only duplicate what has been said many times before. Many blueing solutions are sold with complete instructions for preparing the metal, and for applying the color itself. I might say that it is a messy job to perform on the better half's shiny kitchen range and around waxed kitchen floors. ◆ ◆ ◆

ROSS REVERSAL

By H. V. STENT

THIS IS A CORRECTION and an apology—a correction of an article of mine which appeared in the April, 1945, RIFLEMAN praising the Ross rifle, and an apology to those injured by said Ross and to the ghosts of those killed by it, for my statement that I'd never found any actual proof of that rifle's blowing up.

Even while that article of mine was in the printer's hands, a letter appeared in the March RIFLEMAN giving name, place, and circumstances of a Ross blowout which had destroyed the right eye of shooter C. G. Williams. That was the first case I'd ever come across which gave enough details to be authentic. After my article appeared, enough came to light to prove it was far from an isolated instance.

Back in 1922, A. L. Thompson lay down to target a Ross, and when he fired the first shot, the bolt let go.

It came back so hard it splintered the cheekbone, ripped away all the lower eyelid and surrounding flesh, jammed the eye up into the socket, and then let it drop into the hole below. The sight of that eye was, of course, destroyed.

One of many substantiated cases in which a Ross rifle has blown up. This Model 10 Sporter let go because the shooter failed to lock the bolt in its lug seats before firing the rifle. Because of this easily-made error, the shooter was severely injured by a standard .280 cartridge.

A third case happened shortly after the first World War to H. A. McNeil at Brant, Alberta.

All these men were right-handed. The blown bolt struck more or less the side of the head. But what if a left-handed shooter had a bolt blow out in his face . . . ?

A case of that, too, was pointed out to me. Louis Lavalley, at Keith, Alberta, had the bolt blow in a Ross Model 10 .280 fired from his left shoulder. He died eleven hours later. Lindsay Elliott saw a man killed in France in the first war from his Ross blowing up, and another died in the hospital with the firing pin, mainspring and retainer washer, cocking-piece and pin of a Ross rifle imbedded in his face.

Three deaths, three serious injuries. What caused them? In the cases of Thompson, McNeil, and Lavalley, there is evidence enough that it was a wrongly assembled bolt.

Right here let me admit another misleading error in my previous Ross article—caused only by ignorance, but nonetheless dangerous. When I wrote, I had never seen a wrongly assembled bolt. All I had heard or read about Ross rifles gave me the impression that the bolt and bolt sleeve had to be taken apart and put together again to wrongly assemble.

Since then I've found out how damnably, dangerously wrong I was—though I'm still puzzled. And the puzzle is why none of the Ross articles I've read tell how easy it is to assemble incorrectly a Ross Mark III or Model 10 bolt.

Easy? You just take the bolt and sleeve as they come out of the rifle, with the lugs horizontal and standing out about an inch from the sleeve, and give the bolthead a flick to the left! In the models with the sloping extractor-lug slot that's all it takes. Just a flick. The bolthead flies back on the sleeve, just as it flies back when you turn it to the right in the normal way—only the lugs are horizontal when the head is back. In other words, the lugs are in a position to enter the rifle, but are too far back to engage in the locking recesses. In fact, they don't turn at all when the bolt is pushed home.

But will they fire when the bolt is thus inserted in the wrong position? The answer to that is one of those things so simple that you wonder after you've learned, how in the world you could miss it before. A man experimenting with a rifle is apt to slide a cartridge direct into the chamber to try it; and a wrong-bolted Ross won't fire it. But a man who is using his rifle, not experimenting with it, *fills the magazine*. A wrongly assembled Ross bolt will pick up a cartridge from the magazine and hold it firmly enough under the extractor so that it will fire. When this occurs, the unwary firer may be another Thompson, McNeil, or Lavalley.

And now a second serious accusation against the Ross: that it will blow out even when the bolt is properly assembled.

How can a Ross blow out when the bolt is in right? On most Rosses the bolt has to be right home, with locking lugs adequately engaged, before the firing pin will reach far enough through the hole to fire a cartridge. But an extra-long pin—or one that was loose or broken—or a very sensitive primer, might easily fire a cartridge before the bolt was fully locked. Blown bolts have been found with the lugs torn in such a way as to indicate that the gun fired when they were only partly engaged—or else started to unlock of their own accord with the pressure, and blew when sufficiently disengaged.

Altogether, it makes that article of mine look pretty sick. But I'd rather admit to being the most ill-informed fool in the world than to have one man injured through using, on my recommendation, one of these potential killers. ♦ ♦ ♦

Care of the Foreign Double Gun

(*Continued from page* 24)

found necessary. Note that the shims used represent the amount to be added to the surface *on one side* of the pin; therefore, the necessary increase in the *diameter* of the pin must be twice the shim thickness.

The installation of an oversize cross pin presents few complications to the competent gunsmith-machinist. But great care must be taken that a genuinely competent man, accustomed to working on fine guns, is entrusted with the work.

The slotted screwheads appearing on the sides of the action body at the cross pins generally are not the ends of the pin, as they appear to be, but only screw caps. When they have been removed (with a properly fitting screw driver!) one is still obstructed by the cocking levers. These lift out to the front as soon as their axis screws, which also show on the sides of the forward portion of the body, are removed. A small setscrew or grub screw which bears on the cross pin is loosened and the pin can then be pushed out. It is a plain headless cylinder, a push fit in its seat.

A new pin is made, equal to the increased diameter already ascertained, or slightly greater than that. Because of its elementary form, manufacture is a simple lathe job. A cylindrical grinder to finish the pin after hardening is desirable but not necessary, especially since even after grinding, the pin should be polished. If more convenient, the old pin may be chrome plated to the desired diameter.

Next comes the only difficult part of the operation—the accurate enlargement of the seat to take the new pin. Since it is extremely unlikely that a reamer of the exact size desired can be had (unless facilities are available for grinding one to size), it generally will be necessary to lap out the hole. One should not deceive himself with the idea that this can be done properly by hand—the attempt will produce a tapered hole which will not support the pin properly. While the operation is not difficult, it requires lathe-made laps, the correct grades of abrasive, and a slow-speed drill press.

It is well to make the pin a trifle larger than indicated by the shimming test, to be sure of getting it large enough. If on assembly the gun then proves too tight, the standing breech is smoked or coated thinly with Prussian blue, and the indicated contact points on the barrels are stoned until the gun closes as desired. This gives perfect breeching.

Finally, American ammunition suitable to the gun should be selected. First, make sure that the gun is proved for smokeless powder (see the excellent article, "Proof Marks on European Shotguns," by A. Engelhardt, in THE AMERICAN RIFLEMAN of January, 1946). Next, consider the length of cartridge case for which it is chambered. Unless marked to indicate otherwise, it is most likely that the chamber is for the 65 mm. (nearly two and five-eighths inches) length of shell which is standard in Europe for 12, 16, and 20 gauges, while in this country the standard chamber in those gauges is two and three-fourths inches. But in the absence of a marking, it is better to make sure by taking a sulphur cast of the chamber and measuring that. The operation is easy and has been described many times. The chambers of a break-open shotgun are so accessible that paraffin wax can be used, which makes a cast quite good enough for the purpose and is a material more likely to be available at home than sulphur.

In addition, the load should not be too heavy for the weight of gun. Since most European guns are of the light, upland types, upland and not wild-fowling loads are appropriate. For example, three drams of bulk powder, or equal, and one and one-eighth ounces of shot in a 12 gauge.

Both the requirement for 65 mm. shell length and that for moderate loadings are met by the standard, inexpensive field loads now on the market.

"Rules for Revolution"

ON A DARK NIGHT IN MAY, 1919, two lorries rumbled across a bridge and on into the town of Dusseldorf. Among the dozen rowdy, singing "Tommies" apparently headed for a gay evening were two representatives of the Allied military intelligence. These men had traced a wave of indiscipline, mutiny, and murder among the troops to the local headquarters of a revolutionary organization established in the town.

Pretending to be drunk, they brushed by the sentries and arrested the ringleaders—a group of thirteen men and women seated at a long table.

In the course of the raid the Allied officers emptied the contents of the safe. One of the documents found in it contained a specific outline of "Rules for Bringing About a Revolution." It is reprinted here to show the strategy of materialistic revolution, and how personal attitudes and habits of living affect the affairs of nations:

"A. Corrupt the young. Get them away from religion. Get them interested in sex. Make them superficial, destroy their ruggedness.

"B. Get control of all means of publicity and thereby:

"1. Get people's minds off their government by focusing their attention on athletics, sexy books and plays, and other trivialities.

"2. Divide the people into hostile groups by constantly harping on controversial matters of no importance.

"3. Destroy the people's faith in their natural leaders by holding these latter up to ridicule, obloquy, and contempt.

"4. Always preach true democracy, but seize power as fast and as ruthlessly as possible.

"5. By encouraging government extravagance, destroy its credit, produce fear of inflation with rising prices and general discontent.

"6. Foment unnecessary strikes in vital industries, encourage civil disorders and foster a lenient and soft attitude on the part of government toward such disorders.

"7. By specious arguments cause the breakdown of the old moral virtues: honesty, sobriety, continence, faith in the pledged word, ruggedness.

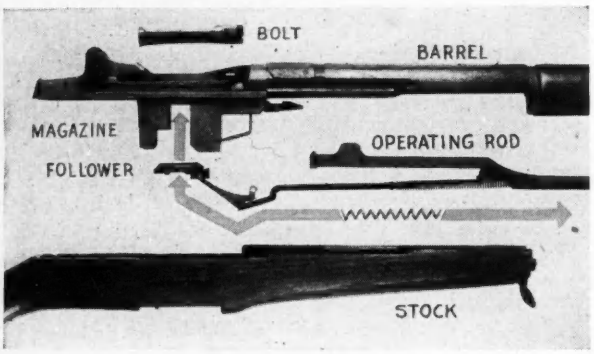
"C. Cause the registration of all firearms on some pretext, with a view to confiscating them and leaving the population helpless."—From *New World News*, Feb. 1946.

Match Shooting with the MI

(*Continued from page* 13)

lower moves up, because the spring expands as the follower rises.

With these two facts in mind, suppose excessive friction exists from ill-fitting parts, or that the spring is not quite as strong as it should be. What will happen? For the first several rounds, nothing. The rifle will function perfectly. But, with each shot fired, the operating spring is losing some of its power to overcome excessive friction, or is approaching the point where, due to weakness, it will not have sufficient strength to keep the follower moving up with proper snugness and speed



This "exploded" view shows how one spring must do two jobs in M1: returning operating parts to forward position after each shot, and forcing follower up into magazine. Power of spring decreases as magazine is emptied, and if friction is present, rifle is apt to misfire on seventh shot.

so that all eight rounds will rise up into loading position in turn—and in the split second required for the bolt to flash back and forward. In this event, somewhere near the seventh round, the rifle will lose its operating balance, and a failure to feed will occur.

Of course, there are other malfunctions which may cause failure to feed, among which may be some trouble with the clip. Should the clip catch fail to hold, the clip will move up and cause a failure; but usually when this occurs the clip will jump out. But failures of this kind are rare.

Rare, also, are actual failures to fire. When they do occur, they usually happen on the first and ninth round of a rapid-fire string and are the result of careless loading. Upon placing the clip in the magazine and chambering the first round, the bolt will sometimes fail to close completely unless the operating handle is slapped smartly forward with the hand. Then, if the bolt is not seated in the locked position, the Garand rifle will not fire. But such failures to fire were not considered legal rapid-fire alibis in Marine Corps matches this year, and probably will never be so considered, inasmuch as they are the fault of the shooter and not that of the rifle.

And so we come back to our problem of matches for the Garand. With the limitations of the rifle in mind, some shooters may hold that adapting traditional "name matches" to the Garand is the major problem to be solved before National Matches can again be held with .30 caliber weapons. Here, because of the size of National Matches, the major problem is functioning in rapid fire; that opinion is again offered. But in neither case is the problem insurmountable. New matches can be devised and most Garands can be made to function satisfactorily. In fact, the rifle upon which these observations are primarily based was used from January to June and never once failed to function properly; good ones do exist. Then, too, although we may only guess at this matter, it is likely that equipment for National Matches will be carefully assembled and gauged, which should reduce malfunctions in rapid fire at least within the normal characteristics of semi-automatic weapons. This is the answer to the problem of functioning in rapid fire.

To be sure, all characteristics of the present Garand are not bad. The Garand barrel, for instance, is entirely satisfactory. It will produce good groups. Approximately 3000 rounds were fired through the rifle upon which this statement is based, and when turned in, it was still capable of an eight-round possible at 500 yards, though it had begun to spread at 600 yards.

Just how much this rifle had spread was not determined, because average groups made with the Garand at 600 yards appear to increase about one third over those made at 500 yards, even when the rifle is new. But it seems likely that most of the blame for this should be placed on the size of the Garand sights rather than on the rifle or the ammunition used this year.

The ammunition fired in all 1946 Marine Corps matches was .30 caliber armor-piercing, which is loaded with a 165 grain, semiboattailed bullet and fifty grains of powder. An occasional low shot was noticeable with this ammunition, but it was the best available at the time and will make a fairly decent group. As a matter of fact, five successive shots were sent through a spotter at 500 yards with this ammunition, and four were sent through at 600 yards. This is not bad and will do until National Match ammunition is again produced.

In order to avoid misunderstanding, however, it should be pointed out that due to the tremendous amount of .30 caliber M2 ammunition on hand—as well as the fact that a sufficient amount of .30 caliber armor-piercing may not be available—it may be necessary to use the lighter M2, at least in practice, for the next several years.

This lighter ammunition, .30 caliber M2, is loaded with a 150 grain flat-base bullet and fifty grains of powder. This light stuff showed up fairly well at the shorter ranges, but was not reliable at 500 and 600 yards. Good, short-range scores are likely to be spoiled at the longer ranges when firing M2, even in the eight-round strings listed (Table 1).

In beginning a comparison between the Garand and Springfield rifles based on actual score performance, comparative tables will be used. Table 1 shows the course fired and the average of the ten high men the first day, over in the 1946 Marine

TABLE 1.—1946 MATCH COURSE
(Garand)

Average of ten high scores, first day of 1946 Marine Corps Match.

Range	*No. Rds.*	*Target*	*Time*	*Possible*	*Average 10 High*
200 S.....	12	A	12 min.	60	53.9
200 R.....	16	A	60 sec.	80	76.2
300 R.....	16	A	65 sec.	80	73.9
500 S.....	8	B	8 min.	40	38.0
600 S.....	8	B	8 min.	40	36.5
Totals.....	60	..	.....	300	278.5

Corps Match, fired with the Garand at Quantico, Virginia.

Most experienced shooters, after this season's tryout, now consider this course out of balance in that over half of the total shots are fired at rapid fire. Most of them also consider the time for rapid fire too short for truly skillful shooting.

In comparison, the time of sixty seconds for ten shots rapid fire with the Springfield at 200 yards and seventy seconds for ten shots at 300 yards was entirely sufficient. With the Springfield, an average of eight seconds was used for getting into position and six seconds for reloading, leaving forty-six seconds for aiming, squeezing, and recovery at 200 yards, and fifty-six seconds at 300 yards. Bolt action has not been considered here because bolt action is really a part of recovery. Therefore, when firing ten shots rapid fire with the Springfield, 4.6 seconds could be used to aim, squeeze, and recover from each shot at 200 yards and 5.6 seconds at 300 yards. This was sufficient to correct bad sight pictures and improve bad positions.

With the Garand, firing sixteen shots in sixty seconds at 200 yards and sixteen shots in sixty-five seconds at 300 yards leaves no time for fine corrections, because time required for positions and reloading will average the same with the Garand as with the Springfield. Then six more rapid-fire shots must be fired with the Garand, on the course above (Table 1), leaving only 3.5 seconds to aim, squeeze, and recover from each shot at 200 yards, and only 3.18 seconds at 300 yards. This is not sufficient time, because it borders too close on the ultimate in average human performance.

Therefore, in an effort to overcome this as well as other handicaps found in the 1946 match course, a new course was devised (Table 2), over which an experimental team match was fired at Quantico. Forty competitors, making up four, ten-man teams drawn from the four Marine Corps Divisional Matches, were used in this match.

The difference in the number of rounds fired in the rapid-fire strings represents an effort to regain time for correction and recovery. Some success is apparent. The scores clearly show that the winning team possessed the greatest skill and the greatest endurance, as a team, which is the reason they were winners. And individual scores also increased. Eight, or 20 per cent, of the forty shooters reached 280 or better, which was an outstanding score this year.

The course fired is shown in Table 2, which also shows the winning team average and the average of the ten high individual scores. The nine-round rapid-fire strings were fired by going into position with only one round loaded.

TABLE 2.—1946 EXPERIMENTAL TEAM MATCH COURSE
(Garand)

Winning team average and average of ten high individual scores in match; 40 competitors

Range	*No. Rds.*	*Target*	*Time*	*Possible*	*Winning Average*	*Average of Ten High*
200 S.....	**12**	A	12 min.	60	54.5	55.2
200 R.....	**9**	A	60 sec.	45	42.5	43.0
300 R.....	**9**	A	65 sec.	45	41.3	42.0
500 S.....	**10**	B	10 min.	50	46.7	48.2
600 S.....	**20**	B	20 min.	100	89.5	92.2
Totals.....	**60**			300	274.5	280.6

While some improvement was made in the totals produced in the experimental match, these scores still require further comparison with past performances of the 1903 Springfield. In this comparison, let us take the average scores made on the first day by the ten high men in the Marine Corps Match of 1940, in which the Springfield was used, and compare them with the ten high first-day scores of the Marine Corps Match of 1946, in which the Garand was used. The ranges used for comparison are only those upon which both rifles were fired.

TABLE 3.—COMPARATIVE SCORES—GARAND vs. SPRINGFIELD at 200, 300, and 600 yards.

Averages from the ten high scores on the first day of the Marine Corps Matches of 1940 and 1946.

Year	*Rifle*	*Average of Ten High Men*				*No. Rds.*	*Points Lost*	*Points Lost per Shot*
		200S	*200R*	*300R*	*600S*			
1940	1903	45.8	48.5	46.5	46.4	400	128	.320
1946	M1	53.9	76.2	73.9	36.5	520	195	.375
Rapid Fire:								
1940	1903		48.5	46.5		200	50	.25
1946	M1		76.2	73.9		320	99	.31

Of course, due to the difference in the number of rounds fired, it is not possible to make an exact comparison. The nearest possible comparison shown (Table 3) appears in the last two columns under "points lost" and "points lost per shot." These comparisons still indicate, it appears, that a more skillful performance was possible with the 1903 Springfield.

A view of the firing line during the Marine Championship matches at Quantico

To continue this comparison, and to bring out one final point, the total score of the winning team in the National Matches for the years 1938, 1939, and 1940, made with the Springfield on the old National Match course *which included 1000 yards*, will be compared with the total score of the ten high men the first day of the Marine Corps Match of 1946 (Table 1), and with the total of the ten high individual scores made in the Marine Corps Experimental Team Match of 1946 (Table 2). In both of the 1946 matches, the Garand was used and *the longest range fired was 600 yards*.

TABLE 4.—COMPARISON OF 1938, 1939, AND 1940 NATIONAL TEAM MATCH SCORES WITH 1946 MATCH SCORES

Scores of winning national team of 1938, 1939, and 1940 vs Marine Corps Match and Experimental Team Match of 1946.

Year	*Team or Match*	*Rifle Used*	*Total Score*	*Average Score*	*Points Lost*	*Points Lost Per Shot*
1938	Army–National Mat.	1903	2792	279.2	208	.346
1939	Army–National Mat.	1903	2757	275.7	243	.405
1940	Marine–Nat. Match	1903	2833	283.3	127	.211
1946	Marine Corps Match Ten High Men	M1	2785	278.5	215	.355
1946	Exper. Team Match Ten High Men	M1	2806	280.6	194	.323

Here, too, in the comparison of both rifle and course, the Springfield rifle is favored. Past experience indicates that scores made on the shorter 1946 match course (Garand) should have greatly exceeded those made on the old National Match course (Springfield), which called for a twenty-shot string at 1000 yards. The longest range fired with the Garand was 600.

True, as mentioned, an exact comparison has not been possible because of the difference in the size of the matches considered, the difference in the number of rounds fired, and the difference in rapid-fire time. The trend of the comparison clearly favors the Springfield, however. The top scores made on the short 1946 course should have exceeded, by many points, those made on the longer National Match course, and in other comparisons should have been more nearly alike in points lost per shot. This was prevented in my opinion at least, by the principal handicap in the 1946 course, rapid-fire time, and by the outstanding difference between the Garand rifle and the '03 —the size of the sights.

It would be interesting to see similar trials made with modified Garand sights, in proper ratio to the target, fired with good ammunition over a course that fits both rifle and man, thereby blending the rifle, the course and the human element into one smooth result. This is the answer to the problem.

But no matter the course and weapon selected for the next firing of the National Matches, it is certain that all who appreciate and follow the sport of competitive shooting will be keenly interested and willing to try their skill; willing, also, if they must, to try their luck . . . whether the rifle is Garand or Springfield. The Marine Corps matches are a start in the right direction—proving, if nothing else, that Nationals are possible with the M1, and that the target-range shortcomings of the combat-proved M1 can be licked. ♦ ♦ ♦

For Better Sport: Handicapping

(*Continued from page 25*)

and the lesser fry got a big kick out of beating the top shooters like Doc Cook, Johnny Layton, Bridges, Bean, and Mansell. The actual scores shot and the results in two matches are set forth below. We all think this is a good way to keep up the interest of the low-average shooters."—Harry M. Dengler.

These are the results of a match fired over the .22 National Match Course, showing side by side the average of the shooter, actual scores fired, the score adjusted to handicap, and final ranking in the match.

.22 CAL. NATIONAL MATCH COURSE

Competitor	*Average*	*Score*	*Handicap Score*	*Position*
Scanlon	200	240	290.442	1
Stewart	264	271	289.105	2
Burnstine	246	256	288.613	3
Hamrick	267	269	287.364	4
Dunn	208	222	287.348	5
Bushman	229	237	287.224	6
Le Blanc	244	246	286.478	7
Manuel	252	253	286.464	8
Ellis	225	227	286.276	9
Cook	281	278	284.831	10
Layton	283	278	283.113	11
McLaughlin	265	256	283.029	12
Denzler	239	223	282.136	13
Markhain	176	172	279.609	14
Jones	155	139	274.352	15

Note that Cook, who has an average of 281, fell to a 278 in this match. He is ranked near the bottom.

But in the next match over the same course and against almost the same competitors notice that Cook's adjusted average is 279 and he fired a 292, the best improvement over his average of any shooter in the match.

.22 CAL. NATIONAL MATCH COURSE

Competitor	*Average*	*Score*	*Handicap Score*	*Position*
Cook	279	292	294.990	1
McLaughlin	260	274	291.144	2
Burnstine	251	261	288.975	3
Dunn	215	230	287.848	4
Manuel	252	257	287.616	5
Bean	275	276	287.280	6
Layton	280	280	286.874	7
LeBlanc	245	248	286.761	8
Mansell	288	282	284.399	9
Rodgers	260	254	284.332	10
Jones	147	151	276.264	11
Ryan	174	111	266.892	12

This handicap system does have a definite place in local competitions. It adds interest and zest to league shooting which would normally become dull after several weekly matches in which Joe Doakes consistently won because he is the only high-average shooter in the league. It could even be adapted in Class C registered matches to the interest of all. It offers an incentive to shoot above average. By hitting an above-average score, the low-average shooter can win the match. If anything, it affords more interest-making competition. And that is what is needed if the game is to grow. ♦ ♦ ♦

CAMP PERRY MATCHES

AS WE GO TO PRESS, NUMEROUS CHANGES ARE BEING MADE IN THE CAMP PERRY PROGRAM. MAKE NO MAIL ENTRIES ON THE BASIS OF THIS SCHEDULE. FOR MORE ON CAMP PERRY ARRANGEMENTS, SEE PAGE 17

PISTOL PROGRAM

Aggregate Matches

(1) National All-Around Pistol Championship
An aggregate of scores made in matches 2, 3, and 4.
(2) .22 Caliber Pistol and Revolver Aggregate
An aggregate of scores made in matches 21, 22, 23, and 25.
(3) Center-Fire Pistol and Revolver Aggregate
An aggregate of scores made in matches 30, 31, 32, and 34.
(4) .45 Caliber Pistol Aggregate
An aggregate of scores made in matches 39, 40, 41 and 43.
(5) NRA Target Pistol and Revolver Championship
An aggregate of scores made in matches 2 and 3.
(6) National Woman's Pistol Championship
An aggregate of scores made in matches 2 and 3.

Saturday, August 31

Registration for quarters and School of Instruction

Sunday, September 1

School of Instruction; Classification Matches, .22 cal.

Monday, September 2

School of Instruction; Classification Matches, .45 cal.

Tuesday, September 3

(7) Civilian Individual (C.F., Camp Perry)
(8) Police Individual (C.F., Camp Perry)
(9) Service Individual (C.F., Camp Perry)
(10) Expert Class Match (.22 Cal., Camp Perry)
(11) S. S. Class Match (.22 Cal., Camp Perry)
(12) Marksman 1st Class Match (.22 Cal., Camp Perry)
(13) Marksman Class Match (.22 Cal., Camp Perry)
(14) Civilian Individual (C.F., Nat. Match)
(15) Service Individual (C.F., Nat. Match)
(16) Police Individual (McGinley Trophy, C.F., Nat. Match)
(17) Regional Winners Team Match (.22 Cal., Nat. Match)
(18) Civilian Affiliated Club Team Match (C.F., Camp Perry)
(19) Police Team Match (Colt Trophy C.F., Camp Perry)
(20) Service Team Match (C.F., Camp Perry)

Wednesday, September 4

(21) .22 Cal., Slow Fire (50 yards)
(22) .22 Cal., Timed Fire (25 yards)
(23) .22 Cal., Rapid Fire (25 yards)
(24) Open Team Match (.22 Cal., Short Course)
(25) Individual .22 Cal., National Match Course
(26) Expert Class Match (.22 Cal., Nat. Match)
(27) Sharpshooter Class Match (.22 Cal., Nat. Match)
(28) Marksman 1st Class Match (.22 Cal., Nat. Match)
(29) Marksman Class Match (.22 Cal., Nat. Match)

Thursday, September 5

(30) C.F., Slow Fire (50 yards)
(31) C.F., Timed Fire (25 yards)
(32) C.F., Rapid Fire (25 yards)
(33) Open Team Match (C.F., Short Course)
(34) Individual C.F. National Match Course
(35) Expert Class Match (C.F., Nat. Match)
(36) Sharpshooter Class Match (C.F., Nat. Match)
(37) Marksman 1st Class Match (C.F., Nat. Match)
(38) Marksman Class Match (C.F., Nat. Match)

Friday, September 6

(39) .45 Cal., Slow Fire (50 yards)
(40) .45 Cal., Timed Fire (25 yards)
(41) .45 Cal., Rapid Fire (25 yards)
(42) Open Team Match (.45 Cal., Short Course)
(43) Individual .45 Cal. National Match Course
(44) Expert Class Match (.45 Cal., Nat. Match)
(45) Sharpshooter Class Match (.45 Cal., Nat. Match)
(46) Marksman 1st Class Match (.45 Cal., Nat. Match)
(47) Marksman Class Match (.45 Cal., Nat. Match)

Saturday, September 7

(48) Civilian Affiliated Club Team Match (.22 Cal., Camp Perry)
(49) Police Team Match (.22 Cal., Camp Perry)
(50) Service Team Match (.22 Cal., Camp Perry)
(51) Open Team Match (.22 Cal., Nat. Match)
(52) Life Member Match (C.F., Nat. Match)
National Trophy Individual Pistol Match (.45 Cal., Nat. Match Course)

Sunday, September 8

(53) Open Team Match (C.F., Nat. Match)
(54) Open Team Match (.45 Cal., Nat. Match)

SMALL BORE RIFLE PROGRAM

Aggregate Matches

(61) National Small Bore Rifle Championship
An aggregate of scores made in matches 2 and 3
(62) Any Sight Aggregate
An aggregate of scores made in matches 60, 65, 67, and 69.
(63) Metallic Sight Aggregate
An aggregate of scores made in matches 61, 62, 66, and 76.
(64) National Woman's Small Bore Rifle Championship
An aggregate of scores made in matches 2 and 3
(65) National Junior Small Bore Rifle Championship
An aggregate of scores made in matches 61, 62, 66, and 76.

Saturday, August 31

Registration for quarters and School of Instruction

Sunday, September 1

School of Instruction; Classification Matches.

Monday, September 2

School of Instruction; Classification Matches.

Tuesday, September 3

(66) 50-Yard Allcomers (Any Sights)
(67) 50-Yard Allcomers (Metallic Sights)
(68) 100-Yard Allcomers (Metallic Sights)
(69) Life Member Dewar (Any Sights)
(70) "400" Club Member's Dewar (Metallic Sights)

Wednesday, September 4

(71) 100-Yard Allcomers (Any Sights)
(72) Austin Trophy Match (50 Meters, Metallic Sights)
(73) Remington Trophy Match (50 Meters, Any Sights)
(74) Randle Trophy (Doubles, 50 Meters, Any Sights)

Thursday, September 5

(75) Western Trophy Match (Dewar, Any Sights)
(76) Regional Team Match (Dewar, Any Sights)
(77) Expert Class Match (50 Yards, Metallic Sights)
(78) Sharpshooter Class Match (50 Yards, Metallic Sights)
(79) Marksman 1st Class Match (50 Yards, Metallic Sights)
(80) Marksman Class Match (50 Yards, Metallic Sights)
(81) American Dewar Match (Dewar Course, Metallic Sights)

Friday, September 6

(82) U. S. Trophy Match (Dewar, Metallic Sights)
(83) Doubles Match (50 Yards, Metallic Sights)
(84) Lyman Trophy Match (Doubles, 100 Yards, Metallic Sights)
(85) NRA 3-Position Match (NRA Standing, Kneeling, and Prone, 50 Meters, Metallic Sights)
(86) NRA Affiliated Club Team Match (Dewar, Metallic Sights)

Saturday, September 7

(87) Caswell Trophy Team Match (Dewar, Metallic Sights)
(88) NRA Affiliated Club Team Match (Dewar, Any Sights)
(89) Expert Class Match (100 Yards, Metallic Sights)
(90) Sharpshooter Class Match (100 Yards, Metallic Sights)
(91) Marksman 1st Class Match (100 Yards, Metallic Sights)
(92) Marksman Class Match (100 Yards, Metallic Sights)

Sunday, September 8

International Dewar Team Match

The Old Coach

TARGETS AND VARMINTS

TWO REASONS WHY RANGE OFFICERS leave home are the careless shooter who is never ready, and the misled boob who seems to glory in using all of the time he can in getting set to fire. If you are firing your first season in competition, train yourself to be prompt and prepared. Also, if necessary, get it out of your head that everybody including the sheriff is watching you. Unless you make a show of yourself, they most decidedly are not. Every shooter who knows the score is tending to his own business, not someone else's.

To make yourself welcome, check your outfit carefully before you go to the range. Be sure everything is right. Then, when you are called to the ready line, check each detail again. Be sure your loading block holds the correct number of rounds of the right ammunition, including sighters. Be sure your rear sight, or scope, is correctly set for the distance you are to shoot, and the aperture in your front sight is correct.

When you get on the firing line, make every move count. Place your kit box on the right-hand side of your firing position, where it can be reached easily. Lay out your ground cloth, if you use one; place your spotting scope as nearly in place as possible; jab your rifle rest into the ground and lay your rifle in it. Now, lie down and with a couple of hitches with your hips and a little shifting of your elbows get into position; adjust your spotting scope to fit your eye; put the sling on your arm; roll into position with the rifle stock under your right arm, then with your right hand open your kit box and take out your loading block, place it, and select a cartridge for your first shot. Then, when you hear, "Ready on the right? Ready on the left?" you won't be holding up the show.

While it is a splendid sport and necessary basic training for every rifleman, formal target shooting alone will not make you the tough *hombre* with a rifle that I know every one of you dreams of being. It takes rough field shooting at unknown distances from all positions to complete this postgraduate course. For the majority, this will be varmint shooting. But the rub is that many of us live in communities where varmint shooting does not exist. That means that if we depend upon shooting at live animals alone, we'll get mightly little practice. Consequently, it is up to us to make use of silhouette targets.

These animal and bird cutouts can be made from cardboard, wallboard, or any similar stiff material. They must be cut to proper size and have as nearly a natural color as possible. A wonderfully realistic game can be worked up, and one that will add greatly to your rifle knowledge. This field shooting can give you the sort of training that every varmint and deer hunter should have. Not the least of it is getting your leg and body muscles hardened up for the day that you take that long-planned woodchuck trip, or your annual deer hunt.

For this kind of shooting you will need a rough field with natural cover at least 200 yards long. Under these conditions the rifle will be limited to the .22 rim fire. If there is no hill to catch ricochets, a sandbag can be placed behind each silhouette to catch the bullets. Where there is a will there is a way, and with this opportunity for field training it seems silly for anyone to set off on a varmint or big-game hunt totally unprepared, as so many do every year.

Remember that flesh and blood animals don't run around with a bullseye tacked on them. Leave it off your cutouts.

At least two fellows should play the game. While one sets out the targets, the fellow who is to shoot should close his eyes or, better yet, run up and down the road a few times to start his heart pumping and simulate the effort used in a hard stalk. Distances should always be unknown. You should be particular to get a mental picture of the size of each animal based on later pacing of the shot. Use all shooting positions; the target putter-outer should place them so the shooter must sit or stand rather than forever take prone shots.

As is true for all small-game hunting, it is best to have your rifle sighted so that the bullet, up to a certain distance, will stay inside a two-inch circle. For the .22 Long Rifle HiSpeed, which you should use on game, sight your rifle for sixty-five or seventy yards. The bullet will then stay inside the magic two-inch circle up to about eighty-five yards. With this sight setting, field training will make it possible for you to make hits up to a full 100 yards. This setting is O. K. for chucks, but might need cutting down for prairie dogs and ground squirrels. For actual varmint shooting, you should have a pair of 6- or 8-power binoculars for spying out the field. Iron sights are fine but for varmint shooting a scope sight is a great help. If you can afford only a scope or a pair of glasses, I would suggest the scope sight. The 2½- and 3-power hunting scopes give bright, wide fields but even in these, the image of a prairie dog 100 yards away is mighty small. Something like the 440 or K-4 Weaver is much better. In any event, don't let anyone tell you that you must have a $300 outfit to hunt varmints. You don't. Use what you have as to rifle, glasses, sights, et cetera. By using your head, get the best from them.

"The real 'chuck hunter is a rifleman," says Paul Estes in his little book, *The Woodchuck Hunter*. "A rifleman should be a gentleman, a true sportsman," as the late Charles Bradford used to say. Always bear in mind that to hunt, for the most part, you must trespass on the lands of another. The farmer's fields are his home; they are not public lands. Never enter any enclosed land without obtaining permission from the owner.

Know the game laws; most states require a hunting license even for shooting varmints. Again, remember that in many states this game license money is the sportsman's money—the money that provides the fish and the game for you to take. It is your donation to your own state fund. Use a rifle with a mild report. Most people seem to judge a gun by the size of the hole and the amount of noise. An '06 blasted carelessly by some brainless shooter has closed the gate on many a good chuck field. In many states it is unlawful to shoot from a car; anyway it is far better for all concerned to leave your car at the farmhouse and be a stalker. To quote Paul Estes again, "It is not the *number* of woodchucks that you kill that counts; it's the long, sporting shots that you make, the shots to be remembered . . ." ♦ ♦ ♦

POWDER SMOKE: THE NEWS DESK . READERS COMMENTS

DCM PURCHASES

Office of the Director of Civilian Marksmanship recently made the following announcements concerning some items for sale through it and sales procedure to follow in purchasing all items for sale through it:

Persons purchasing equipment through the DCM should allow a minimum of ninety days after making application to the DCM before expecting to receive the priced and processed sales approval from the ordnance depot from which the sale will be made.

In Section V of the DCM price list, the M1 .30 caliber cleaning rod mentioned has three sections with handle and not four sections as listed. Section VIII lists the 75 ft. gallery rifle target C8328, stock No. L1-1-500. This is the old style target, the 5 and 6 rings uncolored, and same as the new style except that it cannot be used in NRA registered matches.

Upon approval of sales of equipment to NRA members, the DCM sends a carbon copy of ODCM Form 5 to the purchaser, the original going to the ordnance depot for final sale. The carbon copy is sent the purchaser only for his information as to action taken by the DCM. There is no price listed on it. Hence no action should be taken by the purchaser upon its receipt. The ordnance depot to which the original is sent will price the object and mail this original to the purchaser for his payment. The purchaser will follow the instructions printed on the reverse of this form in making payment to the depot or arsenal.

Some orders will have with them a sales slip. If so, they must be signed and returned with the original of the purchase order sent to the ordnance depot. However, if no sales slip accompanies the purchase order, ignore the remarks under the instructions on the reverse side pertaining to sales slips.

The DCM has requested that all purchasers of ordnance equipment on DCM approval make Express Money Order, Certified Check, Bank Cashier's Check, Bank Draft or Postal Money Order payable to the Treasurer of the United States at the post office address serving the depot or arsenal from which the purchase will be supplied. If this information is not available, make payment by Post Office Money Order, payable to the Commanding Officer of the ordnance depot making shipment.

NATIONAL RIFLE ASSOCIATION:

Headquarters Staff

MAJ. GEN. M. A. RECKORD, *Exec. Vice-President*
C. B. LISTER.....*Secretary-Treasurer*
L. Q. BRADLEY.....*Individual Memberships*
J. R. LENT
F. L. WYMAN.....*Club Activities*
F. C. DANIEL C. R. ROGERS T. W. CHILD
W. F. SHADEL.....*Public Relations*
R. J. STANN J. A. HARPER
MAJ. GEN. J. S. HATCHER.....*Technical*
EDWARDS BROWN, JR. J. L. MURPHY
A. H. BARR J. S. ROSE
E. M. CHASE.....*Cashier*
L. F. THIEL.....*Librarian*

Field Representatives

Southwestern.....Ray Whitaker
505 Central Bldg.
Tulsa, Oklahoma
Midwestern.....Dow Smith
Orpheum Theater Bldg.
Elkhart, Indiana
Southeastern.....Fred Molt
P. O. Box 965
67½ Haywood Street
Asheville, N. C.

Executive Committee

Col. F. W. Parker, Jr.....Chicago, Ill.
(President, NRA)
Mr. Raymond K. Stritzinger....New York, N. Y.
(Vice-President, NRA)
Maj. Gen. M. A. Reckord.....Baltimore, Md.
Mr. C. B. Lister.....Washington, D. C.
Mr. J. W. Woolrey.....Canon City, Colorado
Mr. Raymond C. Bracken.....Columbus, Ohio
Mr. Fred C. Mills.....New York, N. Y.
Mr. E. N. Littleton.....Bowling Green, Ohio
Mr. Seth Gordon.....Harrisburg, Pa.
Colonel E. F. Sloan.....DCM
Captain M. C. Mumma.....USN
Major General Julian Smith.....USMC
Dr. E. O. Swanson.....Minneapolis, Minn.
Brig. General Sidney Hinds.....USA
Brig. General M. A. Edson.....USMC
Mr. Harry C. Linn.....Des Moines, Iowa

Executive Council

Brig. Gen. F. M. Waterbury....New York, N. Y.
Brig. Gen. Benedict Crowell....Washington, D. C.
Mr. Karl T. Frederick.....New York, N. Y.
Mr. Gustavus D. Pope.....Detroit, Mich.
Brig. Gen. L. W. T. Waller.....USMCR
Colonel N. C. Nash.....Boston, Mass.
Judge Hilliard Comstock.....Santa Rosa, Cal.
Colonel F. C. Endicott.....Washington, D. C.
Comdr. Thurman Randle.....Dallas, Tex.

INTERCOLLEGIATES

The University of Iowa rifle team won the National Intercollegiate Rifle Team Championship, fired for the first time since the outbreak of the war. They scored a 1394, only nine points below the record of 1403 fired by the Iowa team of 1940. Ohio State University placed second in this competition with a score of 1358. Third place went to the team representing Yale University, which scored 1315.

The National Intercollegiate Rifle Individual Championship was captured by Charles A. Rogler of the Iowa team. His first-place score was 292. R. A. Brown, of Ohio State, was second with 283. Third was Robert H. Ulmer, of the Yale team, with his 281. Rogler's triumph in the Individual event marked the sixth time that the championship has been won by an Iowa shooter since the competition began in 1926.

HIS JUST DESSERT?

Thomas E. Ford, visiting New York from his home in Wyoming, Pennsylvania, happened upon two Marines surrounded by a small crowd. When one Marine drew a .38 revolver, Ford stepped forward and wrested it from his hands. The marine disappeared into the crowd. About that time the police arrived, so he handed them the pistol. And what do they do but take Ford into custody. Appearing before the Magistrate of the Felony Court, Ford explained that he really didn't have time to register the gun in the short interval between its removal from the hands of the Marine and the arrival of the police. So they released Mr. Ford—upon $1000 bail—until his hearing before the grand jury. Needless to say, his charge is violation of the Sullivan Law.

MEMBERS' MEETING

The annual meeting of members of the National Rifle Association for the election of Directors, as provided by the by-laws, will be held at Camp Perry, Ohio, on Wednesday, September 4, 1946, at 8:00 p.m.

Place of the meeting will be posted both on the Camp Bulletin Board and the Association's Camp Perry Entry Office.

Besides the election of Directors, the meeting will be open to any other business that may properly be presented. All members of the Association have the privilege of the floor. The right to vote is limited to Life and Endowment members, Benefactors and Patrons.

NEW RECORD

Al Hemming's old .22 National Match Course Record of 297 has been outranked twice since May 26. On that date Jess Woodey, at the Southwestern Pistol Tournament in Dallas, fired 99 in each stage, outranking Hemming's score of 99 Slow, 100 Timed, and 98 Rapid, in the Rapid Fire stage.

But at the Maryland Revolver and Pistol Tournament, fired at Sparrows Point on June 15 and 16, Harry Reeves fired 297 over this course. Reeves' scores for each stage were: 98 Slow, 99 Timed, and 100 Rapid. This, of course, outranks Woodey's score of May 26.

Albert W. Johnson

The success of the 1946 Eastern Regional Small Bore Championships is a tribute to the late Albert W. Johnson, of Altoona. Scarcely a week before the realization of one of his greatest ambitions—the opening of those matches on the new Altoona Rifle and Pistol Club range—the 48-year-old co-founder and president of the club died suddenly at his home of a heart ailment.

Mr. Johnson had been a driving force in the building of one of the country's finest outdoor shooting facilities and had devoted a major portion of his activities during the past year toward preparing the range for this event. His eagerness to lead fellow club members in the manual labor necessary to the completion of the project, in spite of a known heart condition, was an inspiration to the entire local shooting fraternity. His death, so tragically close to the culmination of his efforts, was felt by all who attended the match.

Mr. Johnson was survived by his wife, Mrs. LaVina Johnson; one son, Albert W. Jr.; three grandchildren, and his mother.

RICOCHETS

BUFFALO GUNS

Arlington, Virginia.

Editor:

Now we know what fashions an expert—A. J. Hunt tells all! Four buffalo shot in the head with three different rifles and, presto, he's an authority on how the old-timers slaughtered their thousands. My own knowledge is purely book learning, but I can say that he doesn't agree with various other writers on the point of aim, caliber, or effectiveness of the old rifles.

Head shots, says he, were the thing—and the reason for the inefficiency of the "Old Reliable." Certainly a lead bullet is not the proper type for velocities and resistances of the order of the old buffalo rifle and the buffalo's head—it expands too readily. But it would be most effective against buffalo on a heart shot or neck shot. Says Elmer Keith, on page 5 of the February, 1944, RIFLEMAN, "We thought nothing of making repeated heart shots on buffaloes at two to three hundred yards." E. C. Lenz, on page 337 of "Muzzle Flashes," states, "Neck and heart shots did the work." Since Mr. Keith knew personally some of the old buffalo hunters, it would seem that Mr. Hunt should, at least, explain where he obtained his information.

Mr. Hunt states that he personally feels that the .45-70 Springfield killed most of America's buffalo, while Elmer Keith plumps for the Big Fifty and doesn't even mention the .45-70. Since the commercial hunting of buffalo reached its peak in the decade centering around 1870-71, if Keith is correct, and since the .45-70 was not adopted until 1872, it is probable that those used came in after the years of the greatest slaughter were over. Also, Mr. Hunt mentions the .45-70-405 as being his standard of comparison. This, of course, is the carbine load. The rifle load of .45-70-500 at 1200 f.s. and 1600 f.p. muzzle energy is a considerably more powerful load (with approximately the same muzzle energy, however).

Muzzle energy comparisons come out somewhat as follows: .50-170-700, 3500 f.p.; .45-100-550, 2700 f.p; 9 mm. 280 gr., 3200 f.p.; .30-'06 180 gr., 2900 f.p.; and the .270 130 gr., 2800 f.p. The true buffalo guns, designed for such shooting, don't suffer in a comparison of muzzle energies with those used by Mr. Hunt, and are far ahead in killing power. E. Baden Powell's development of the theory of killing power, though perhaps giving too much prominence to mere size, is probably far closer to realities than relying upon muzzle energy as a criterion. His tables show the following for chest shots as the maximum weight of animal which will be killed humanely: .45-125-550, 1790 lbs.; .45-70-405, 940 lbs.; 9.5 mm. Mannlicher 270 gr. (nearest thing to 9 mm. Mauser, 280 gr.), 650 lbs.; .30-'06 180 gr., 365 lbs.; and .270 Winchester 130 gr. (300 yds.), 296 lbs.! According to E. Baden Powell, Mr. Hunt was pretty badly under ground except for a head shot with the 9 mm. (1500 lbs.) and there he apparently should have used a hard-point bullet as per the table on page 40 of the booklet, "Killing Power."

By the way, the momentum formula for which Keith shows a preference gives the following: .50-170-700, 150 f.p.; .45-100-550, 117 f.p.; .45-70-500, 86 f.p.; .45-70-405, 75 f.p.; 9 mm. Mauser 280 gr., 90 f.p.; .30-'06 180 gr., 70 f.p.; and .270 Winchester, 58 f.p. Even with this formula, the .45-70-405 shows up at least as well as the .30-'06-180 and .270 Winchester 130, while the old pile drivers, the real buffalo cartridges, are considerably in the lead.

As far as I can see from the evidence I've dug up, and assuming my information and figures are not too much in error, there is no reason to question the ability of the old buffalo hunters to drop buffalo in their tracks with one shot in the heart or neck when using the buffalo guns developed for that type of shooting.

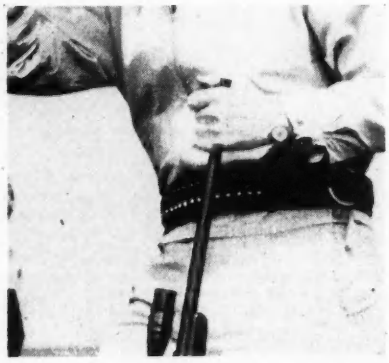
LT. COL. C. A. COZART,
ORDNANCE DEPARTMENT.

THUMB SAFETY

Houston, Texas.

Editor:

I always feel a shudder when I see a photograph such as the one reproduced on page nine of the June issue, wherein the



shooter's thumb rests on the muzzle of a rifle with bolt closed, and presumably ready to fire.

W. E. DANCY.

It is quite apparent in the original photo that the subject's thumb is around the muzzle of the gun, and not over it. When the engraving was made this was not so obvious, but close scrutiny will show that it is not over the muzzle.—ED.

SNIPERSCOPE WORTH

Los Angeles, California.

Editor:

The article on the Sniperscope, by J. S. Rose, in the June RIFLEMAN states that 30 per cent of the Jap small-arms casualties in the first seven days of the Okinawa campaign are attributed to its use. I doubt that statement.

I served with a rifle company in the 77th Division during the Pacific war and contrary to popular belief, the value of the Sniperscope in the Ryukyus campaign was greatly overrated. We received our Sniperscopes and Snooperscopes and instruction in their use immediately after the close of the Leyte campaign. However, we found that they were of greater value in a jungle perimeter defense than in the comparatively open terrain encountered on Okinawa. Each night throughout the Okinawa campaign, the ground forces were supported by heavy mortars and Naval ships, supplying an endless stream of flares. These proved to be greater help in detecting the enemy than any other device.

FRANK H. BOOTH.

MORE ON POSITIONS

Portland, Oregon.

Editor:

Roger R. Allan's letter in the June issue of THE AMERICAN RIFLEMAN is pertinent, although I heartily disagree with him.

It has never been my ill fortune to fight a war, but I have yet to hear of a soldier in combat shooting from the kneeling position. Possibly it is done on rare occasions. I have never heard of anyone being silly enough to use the kneeling position while hunting. I believe it is a fact that most men can shoot better scores offhand than kneeling. In my opinion, this position puts a premium on an operation and gives a tremendous advantage to a few tricksters and contortionists.

Of something like 100 deer I have killed, most were taken from the sitting position. It requires no gymnastic gyrations to get into that position, and is valuable in the field when a steady position is needed, but grass or other physical characteristics of the land do not permit prone shooting. There is some sense to this position and there is certainly a place for it in competition.

Neither of these two positions, one of which is of practical value, is universally used, hence they should not be required for national classification.

HERB T. BROWN.

HERE'S ONE FOR YA'

Barre, Vermont.

Editor:

With the price of ammunition—scarce as it is—way up yonder, why not turn back the pages of time for a while and play with the muzzle-loaders. Caps are about a quarter a hundred, black powder can be had at the rate of six dollars for four pounds, scrap lead can be found around lots of places. If you are real lucky and find a farmer who is replacing an old lead pipe water line with steel or copper pipe, you will have plenty of lead.

Bullet molds may be a problem for some owners of muzzle-loading rifles but should present no difficulties for the handgun brethren. The old .44 cap and ball six shooters will handle slugs from any .44 or .45 bullet mold, though in case of a nearly new gun, the latter size may have to be swaged slightly smaller. Most any .38 mold will work with the .36 caliber, while S.&W. .32 molds seem about right for weapons of caliber .31.

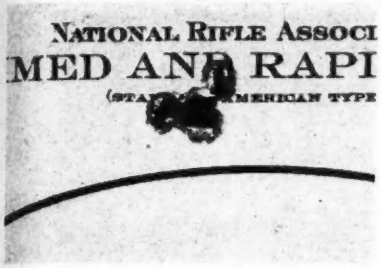
STANLEY L. ROBINSON.

GOOD GROUP, BAD POSITION

Fall River, Massachusetts.

Editor:

Here is one of the most unusual groups I ever have seen, considering the conditions under which it was shot. The five-shot group for score 0 was fired by Arthur A. LeComte,



a qualified gallery sharpshooter, in the rapid-fire stage of the gallery expert qualification course, with a Colt's Official Police Revolver (fixed sights.) His first and second five-shot strings were 40 and 43—just about what he could be expected to shoot. He then shot this group—by all odds the tightest group he ever fired and one of the smallest I ever have seen shot in rapid fire at fifty feet. How it got up there is a mystery, since it is certain that he used the same revolver in all strings. I thought it amusing that the Good Fairy gave an 80 per cent shooter a group like this and the Wicked Elf snatched it right out of the scoring rings.

JOHN D. MACPHAIL.

BOOK REVIEWS

AMERICAN ENGRAVED POWDER HORNS

By STEPHEN V. GRANCSAY

No American antiquities recall quite as much of the history of this country as do the engraved powder horns of our ancestors. Names, dates, maps, figures, and doggerel verses call up vivid pictures of the bitter Indian Wars, and of the long, heartbreaking days of the American Revolution. What document could be more specific than the horn, recorded by Mr. Grancsay, with this inscription:

Simeon Keyes his horn made in the year 1778 and in the 4th year of the civel war and blood shed in North America which Great Britain with the help of the American Tories has forcest vs into and the later has never been dealt with acording to their wicked crimes September 13 (?) ye 1778

As curator of the Metropolitan Museum's great armor and arms collection, Mr. Grancsay has had unparalleled opportunities for study, and his volume is as nearly a "definitive" work on the subject as can be imagined. Though based primarily on the museum's own Gilbert collection of American horns, which includes only 45 examples, the book includes every scrap of data unearthed by Mr. Grancsay during a search of several years' duration. A check list of known examples describes nearly 1,200. This list itself is so indexed that a specific horn may be located by any one of its characteristics—owner's name, area covered by map, engraver, ship's name, location or present owner.

Far from being dry reading, the book is a find for the literary "prowler"—the reader who likes his history in small, digestible bits. There are hundreds of clipped, fervent declarations of a belief in personal freedom and distaste of foreign domination. Typical is the sentiment on Captain Stillman's powder horn, which he carried at Trenton in 1787: *Jony Bull be Damed also the Hessians*—J.K.S.

American Engraved Powder Horns, A Study Based on the J. H. Grenville Gilbert Collection, by Stephen V. Grancsay. The Metropolitan Museum of Art, New York, 1945. 96 pages, 47 plates, $10.00.

WALTHER PISTOLS

By W. H. B. SMITH

That master of modern firearms literature, W. H. B. Smith, has been at it again, to the tune of a handsome cloth-bound volume on Walther pistols of ninety-four pages and fifty-two excellent illustrations.

The book starts with a short history and discussion of the great arms-making district of Zella Mehlis, including the beginning of the famous firm of Carl Walther.

Illustrated and briefly described are the first nine Walther automatics, covering the years from 1908, when the first model .25 caliber Walther was produced, until 1929, which saw the advent of the P.P.

These first nine rather stodgy and undistinguished Walther models are given just about the space they deserve: one good illustration and one or two pages of text for each.

When the author comes to those flashy favorites of the souvenir-hunting GI, the P-38, the P.P. and the P.P.K., he spreads himself in the truly inimitable W. H. B. Smith form, including an abundance of those splendid phantom illustrations which he knows how to use so effectively. These are really most instructive and, taken together with the very clear descriptive text, make available in easily understandable form just about anything one could want to know about these guns.

The book is a mighty good $2.00 worth for anyone who owns a Walther pistol or is interested in Walther guns.—J. S. H.

(Published by Military Service Publishing Co. Available through NRA Book Department.)

STOLEN GUNS

One .32 Savage automatic #5223, stolen from a flight jacket, on an airbase in England, February 1945. Lt. Irving Berger, 245 Graham Ave., Brooklyn 6, N. Y.

One .32-20 Police Positive #162018, with a 4" barrel and transparent plastic grips. J. Norman Parsons, General Delivery, Fort Angeles, Washington.

Enfield action, hi-powered .22 rifle, light myrtle stock, 10X Lyman Targetspot, stolen at Pruett, Arkansas on June 21. $50 reward. E. Botmes, 201 E. Pine, Tulsa, Oklahoma.

The SPOTTING SCOPE With RAY STANN

Steeped in the tradition of valuable service in this country's early fight for existence, historic Fort Roberdeau—Altoona, Pa.'s famous old "Lead Mine Fort," which supplied lead for rifle balls to the Continental Army during the Revolution—is on its way to another tradition . . . as the scene of good shootin' matches in a country club setting . . . The nearly 300 competitors and spectators who made the trip to the July 5, 6, and 7 Eastern Regional Small Bore Championships came away with praise on their lips for the hard-working Altoona Rifle and Pistol Club's layout . . . 126 precision-built firing points, clubhouses, cafeteria, swimming pool, playground, facilities for tennis, trapshooting, badminton and other sports . . . put in operation for the big event only a matter of hours before the first shot was fired . . . The full story of this magnificent range will be told in a later issue of the RIFLEMAN, but here's a story that can't wait . . . Working as hard as anyone in the cafeteria kitchen was Mrs. Albert W. Johnson . . . her husband, the popular Al Johnson who was so well known to eastern shooters as president of the Altoona Club, had died of a heart ailment barely ten days before, his death undoubtedly hastened by overwork.

☆ ☆ ☆

Candidate as the youngest Camp Perry trip-winner is fourteen-year-old Roy Oster, of Llanerch, Pa. . . . winner of seventeen medals (including third place at 50 yards, Any) and the Marksman First Class aggregate at Altoona . . . with a 3153 that topped the Expert and Sharpshooter winners . . . But things are tough all over . . . Comes a gripe from good friend Max Lee, of Detroit, about a recent Wyandotte outdoor shoot. Max writes: "I shot 199-12X at 100 yards, 397 in the Dewar, and 200-9X in the 50 yard Any, and wasn't even mentioned in the final results. These juniors are turning on the heat. I guess those of us who were instructors gave them too good instruction." . . . Do we hear some "Amens"?

☆ ☆ ☆

It's time to start thinking again about National Match publicity and this first postwar year we're driving for more recognition from the press than ever . . . Club officers will be called upon for help in contacting local sports editors who might want special coverage on stories of local interest direct from the NRA Press Offices behind the Camp Perry firing lines . . . Individual shooters and members can help out, too, by looking us up at Perry and bringing in news items of local interest . . . we'll be prepared to handle all assignments with a larger press staff than ever.

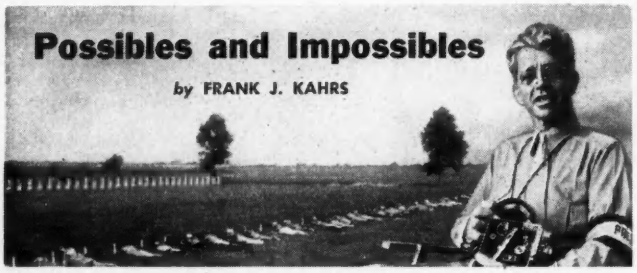
☆ ☆ ☆

Speaking of news . . . TOURNAMENT NEWS, THE AMERICAN RIFLEMAN supplement for the competitive shooter, is a popular little newspaper but no crystal ball . . . we can't see everything that goes on . . . So if your tournament wasn't covered, look first to the match officials and see if a report was turned in to the Editor.

A PAPER FOR PEOPLE WHO SHOOT

Rifle Remington

VOL. 9, NO. 8 BRIDGEPORT, C[illegible] AUGUST, 1



Possibles and Impossibles

by FRANK J. KAHRS

We dropped in at Camp Perry the other day to see what the old place looked like. Our last visit there was in '42. The Camp Perry range itself is about the same, but, of course, the small-bore range is gone and Hogans Alley is no more. But behind the firing line there are a lot of buildings extending all the way back to the main drag, which goes by Camp Perry. In other words, #2 from Toledo to Port Clinton and points east.

Nobody seems to know very much about the future of Camp Perry but there are stories that Ohio is going to make a State Park out of it. That means that a lot of those buildings have got to come down and many other changes, unless the War Department steps in and takes over the place.

It seems a pity to let Camp Perry go by the boards and I hope some way will be found to keep it going . . . just like Sea Girt. But they tell us we will be out there in August and in that case we are all going to have a good time until the matches close on September 8th. We'll be seeing you!

* * *

Along about the 1st of May we started to ship "match" ammunition again for the first time in four years. It seemed like old times to be looking at 10-shot groups from the machine rest at 100 yards and trying to compare these with prewar groups. We finally came to the conclusion that our new ammunition is just a step ahead of what we produced on that last day of production when we threw the switch, washed up and went home for the duration.

After looking over the new groups, we decided that if we could maintain this high standard and get some distribution out among the shooters, we would soon hear about matches being won and new records being made as of yore. Well, we weren't long waiting because within a couple of weeks after the first case of "match" ammunition was shipped, we began to get reports that the stuff was "hot." It didn't make any difference whether we shipped out "Palma Kleanbore," "Targetmaster" or "Dewar Match" and "Peters Police Match." The reports began to come in which told us that the ammunition was plenty "hot."

The other day our scout on the Coast reported that two chaps had created a new two-man team record for 20 shots per man at 50 meters with scope sights recently. One was shooting "Palma Kleanbore," the other "Police Targetmaster," and both, glory be, were shooting Model 37's! Their total score was 400-25X, which is a new record, according to the 1946 Classification Book.

* * *

Took in the Ohio Small-bore State Championships at Mt. Gilead and had some nice visits with some of the old-timers. On the first day quite a bit of excitement was stirred up by the arrival of two cases of "Palma Kleanbore" at the range.

It didn't take long for the good news to get around and there was a general run toward the shack where the ammunition was put on sale. It was exactly five minutes after the case was opened until the last carton was passed out, and the lucky shooters started in immediately to find out something about the new "Palma Kleanbore." By nightfall two matches had been won with it, and an aggregate—so it was a pretty good day after all.

We'll See You at Camp Perry. If you're going to be at Camp Perry, please look us up at Remington-Peters Du Pont headquarters. Make it a place to drop in and say "hello," and meet your friends.

BIG ENTY CAM

HEAVY DEMAND FOR NEW 194 REMINGTON MATCH AMMUNITIO

BRIDGEPORT, CONN., August, 1946. Limited quantities of new 1946 Remington Palma Kleanbore and Police Targetmaster match ammunition have been available for only a short time, but shooters have been quick to recognize the superior accuracy and tighter groups made with these cartridges.

Many letters have been received from small-bore shooters praising the quality of Remington's 1946 match ammunition, and stating that the new ammunition is giving outstanding performance in all makes and types of 22 rifles. Never before has there been more accurate ammunition manufactured. Explaining the reas for this, a Remington spok man says, "Remington e ployees who make the c tridges have been insistent th all postwar match ammuniti from Remington producti lines must be the finest it humanly possible to produc

THERE'S ONE IN EVERY CLUB *The Many-Times Champ*

Remington News

WEATHER:
SUNNY SKIES FOR THE FUTURE OF RIFLE AND PISTOL SHOOTING

EPORT, C… AUGUST, 1946 — First Class Reading Matter for Rifle Shooters

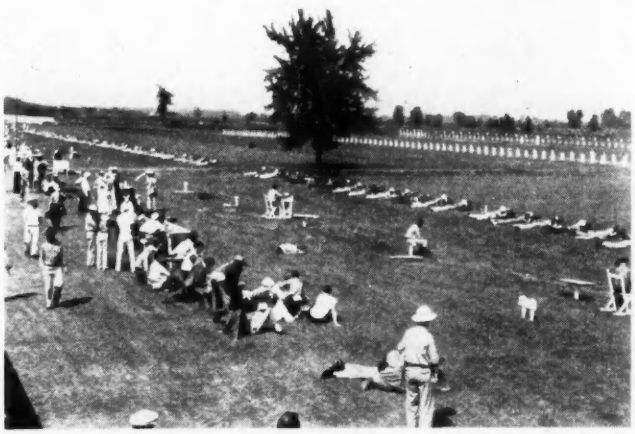
TY EXPECTED IN M PERRY MATCHES

…ional Matches Attract …ord-Breaking Attention

…IDDLETOWN, U. S. A., …ust, 1946. Published lists …ocal, State and regional …ches indicate that 1946 …y be one of the biggest …rs in target shooting his… despite the scarcity of …munition, new rifles and …r equipment. In nearly …y State from Maine to …fornia and Canada to Mex… rifle tournaments are …er way. Shooters are …ming up for the first post… National Matches! …oung men and old . . . …en, too . . . are turning …in large numbers for every …ney.

…nd Remington is doing …ything possible to meet the …e high demands for sport… arms and ammunition. …Remington products reflect …latest in scientific develop…t—accuracy, dependability, …ice and satisfaction. …oters can be sure, "IF IT'S …MINGTON, IT'S RIGHT!"

SCORES AT STATE AND REGIONAL SHOOTS INDICATE CLOSE COMPETITION



Scene at Camp Perry National Matches, which will be repeated this year, August 31 to September 8.

CAMP PERRY, OHIO, August, 1946. Small-bore rifle and pistol shooters in all sections of the country received the news announcing the resumption of shooting at Camp Perry with enthusiastic approval.

Shooters everywhere are hungry for top-notch match competition. Indications are that the Camp Perry events this year, August 31 to September 8, may bring out a record entry in both small-bore rifle events and pistol shooting competition.

One result of the Camp Perry announcement has been to stimulate local shoots and State and regional matches. Interest at these tournaments seems to have reached an all-time high in many areas, with some of the closest competition ever recorded.

Indications are that there will be a heavy entry of women in practically all Camp Perry events. This prediction is based on the large number of women taking part in State and regional matches leading up to the nationals.

There may be several industrial team entries in both rifle and pistol events. During the war many cities have had industrial pistol leagues built largely around plant guard teams. The National Matches may see many such teams shooting shoulder-to-shoulder against pistol clubs, police teams and other groups.

"On to Camp Perry," and let's look forward to renewing friendships and carrying on the great shooting sports.

MORE REMINGTON MODEL 37 RIFLES TO BE ON FIRING LINE AT CAMP PERRY

BRIDGEPORT, CONN., August, 1946. A greater number of Remington Model 37 "Rangemaster" target rifles are likely to be seen on the firing line at Camp Perry than at any previous time. For this "world's finest 22 caliber target rifle" is back in production, with limited quantities being sold as fast as Remington can make them.

The Rangemaster's remarkable trigger mechanism has won the praise of many of the country's outstanding marksmen. It has smooth, sharp, lightning-fast let-off. There's no backlash; no perceptible movement; no drag or creep. And the trigger is quickly adjustable for smooth, easy let-off.

The Model 37 is truly a precision rifle . . . made for champions! The specially tailored stock fits the majority of shooters. For further information write Rifle Promotion Section, Remington Arms Co.

Rangemaster, Palma, Kleanbore, and Targetmaster are Reg. U. S. Pat. Off. by Remington Arms Company, Inc.

CLASSIFIED

…LE—Finely balanced Remington …d 513T target rifle. Bolt action, …agazine repeater. High grade …oderate price. Available in …d quantities through hardware …porting goods dealers.

…D—Shooters who pay close at…tion to the groups they shoot at all …ges. Remington match am… shoots tight groups in all …of target rifles.

…G SOON—As soon as conditions …t, Remington arms and ammuni… will be produced in sufficient …ities to satisfy the demands of …spective buyers. In every case, …uality will be unsurpassed.

…—Many top-notch tournament … are using Remington target … and Remington match ammuni… exclusively.

TOURNAMENT REVIEWS

Four regionals were fired over the weekend of July 4: the Eastern Pistol at Quantico, Virginia; the Eastern Smallbore at Altoona, Pennsylvania; the Far Western Smallbore at Glendale, California; and the Southeastern Pistol at Tampa, Florida.

Three of these four tournaments were won by old line competitive shooters. Harry Reeves was practically without competition after the first day of the Quantico matches. Ransford Triggs, back in the form which won him the National Smallbore Championship in 1941, walked away from the field at Altoona. Robert Perkins, at Glendale, repeated his feat of winning the California State Smallbore title, and far outclassed the field to win the Far Western Rifle Regionals.

FAR WESTERN RIFLE AT GLENDALE

Robert Perkins rather outdid himself in copping the Far Western Regional Rifle Championship. He won four of eight individual matches scheduled and all three aggregates—an indication that he took the matter rather seriously. In winning the Regional Smallbore Championship, Perkins was only continuing his activity of recent months. Back in October of last year, he won the Pacific Southwest Smallbore Championship for the third straight year; on March 31, of this year, he was winner in the Casa Colina Smallbore Tournament.

Perkins placed first in the Iron Sight Aggregate with a score of 1585-89x, while second was J. O. Miller's 1580-83x. C. P. Petersen took third with 1577-71x.

In the Any Sight Aggregate, Perkins beat out Elinor Bell by 7 points and 7 x's. His total was 1596-108x; Miss Bell's score was 1589-101x. Third was J. O. Miller, who finished second in the Iron Sight Aggregate, with 1588-100x.

This consistent shooting gave Perkins a 13-point win, 3181-197 over second-place J. O. Miller's 3168-183. Elinor Bell took third with a 3161-175x total. A. W. Morganfield, who managed to stay pretty well up with the winners in the Expert Class all the way, came through with a first in that class in the Grand Aggregate. C. B. Thorington was high man in the Sharpshooter class with a score of 3158-151x. Fred Olsen was Perry trip winner in the Marksman First Class, turning in a 3130-127x total. D. F. Jackson, Jr., with a 3059-116x, was first place winner in the Marksman Class.

EASTERN REGIONAL RIFLE AT ALTOONA

Ransford Triggs, National Smallbore Champion of 1941, won the Eastern Rifle Regionals for the second time running. His first win was back in 1941, the last regionals before the war, and on this resumption of fullscale competitive activity, he repeats that feat.

Firing under tricky wind conditions on the newly-developed Altoona Rifle and Pistol Club Range, Jack Lacy scored 1585 to beat out Triggs by one point in the Iron Sight Aggregate. Neither first-place Lacy or second-place Triggs won a match during the first day iron sight competition.

Triggs started the second day off by winning the 50 Meter Any Sight event with 400-30x. Jack Lacy wasn't far behind, 400-29x. Woodring fired a 400-37x to win the Any Sight 50 Yard event. The 100 Yard Any Sight match went to Irvin Tekulsky, who turned in 399-29x. But Triggs came back again, firing the only possible in the match, to win the Dewar Any Sights.

Triggs counted up 1596-1084, a two-point victory over Fred Kuhn in the Any Sight Aggregate.

When the final bulletin for the Eastern Regional Rifle Championship was published, Triggs was in first place with 3182-226x, Bill Woodring scored 3174-210x for second, and Dave Carlson placed third, 3173-203x. Edward Blettner came up with 3150-155x to finish first in the Expert Class. High Sharpshooter was C. G. Rowland, Harrisburg, Pa., 3144-151x. Roy Oster, a fourteen-year-old Junior shooter, won four of the eight individual matches, together with the Iron Sight and Regional Aggregates in Marksman First Class. His Regional score was a fine 3153-152x.

Another up-and-coming Junior, Arthur Cook, from Washington, D. C., who has been going great guns recently, fired with the leaders in each event, and finished fifth in the Iron Sight Aggregate and seventh in the Regional Aggregate.

EASTERN REGIONAL PISTOL AT QUANTICO

That Detroit police sergeant, Harry Reeves, is going to be a tough fellow to dispose of in the National Matches if his recent activities on pistol ranges can be taken as an indication of what to expect. Early in June he journeyed down to Sparrows Point, Maryland, and, competing against 273 entries, 33 of whom were masters, shot the pants off them all. On July 5, 6, and 7, he fired in the Eastern Regional Pistol Tournament at Quantico, Virginia, and won handsdown from 200 top-flight competitors.

In the .22 caliber Slow Fire, he scored 189, outranking Walter Walsh's same total. And though he did not take first in any other .22 event, he shot consistently enough to win the .22 aggregate one point ahead of Walter Walsh. Lt. Quentin Brooks, winner at the Southeastern Pistol Regional at Tampa, cropped up in a three-way tie with Reeves and Walsh in the .22 Timed Fire match. But in the shoot-off, Brooks fired a five-shot possible, leaving Walsh and Reeves, who each fired four tens and a nine, to fight it out for second and third.

Only one point behind Reeves with 871, Walter Walsh took second from Lt. Brooks, who equalled Walsh's score but was outranked by him in the .22 Caliber Aggregate.

In the Center-fire matches, Reeves almost made a clean sweep of things. But George Lyons, Chambersburg, Pa., fired 196 to win the rapid fire match. W. L. Devine, a Marine from Quantico, scored 194 and placed second. A New York City policeman, Mark Walsh, came in for third with a 194.

When the Eastern Regional Pistol Championship was counted up, Harry Reeves was leading the field with 1745, way in front of Walter Walsh's second-place 1727. M. J. Golden, of West Reading, Pa., came in for third with 1721.

The class winners in the Regional Championship Aggregate were: Expert, A. M. Murray, 1668; Sharpshooter, Daniel Tauken, 1647; Marksman First Class, Charles A. Byrd, 1597; Marksman, Legh W. Reddeck, 1530.

Reeves split the .45 caliber matches with the rest of the field. He won two, while John Porter, a fellow policeman from Detroit, took the Timed-Fire event with 195. Percy Hawes, Marine from Camp Lejeuné, fired 287 to win, with government issue gun and ammo, the National Match event.

SOUTHEASTERN PISTOL REGIONAL AT TAMPA

But down at Tampa, Florida, a shooter completely new to the competitive game shot consistently enough to win the Grand Aggregate without taking first place in a match. Lt. Quentin Brooks, a transportation officer assigned to Fort Bragg, N. C., placed second in the Center-fire Slow Fire match and third in the Center-fire National Match Course event to aid him in winning, with 835, third place in the Center-fire Aggregate.

Avery Burdette was high man in this Aggregate, accumulating 841 points. Second place, 838, went to C. A. "Smitty" Brown.

Brooks placed third in the .22 Timed-fire match, high Expert in the .22 Rapid-fire match, and second high Expert in the .22 National Match Course to tally enough points to win the high Expert in the .22 Aggregate.

Winner of the .22 caliber Aggregate was W. L. Devine, 857. John Flaherty counted 856 to place second. Brown took third with an 850 score.

Brooks' score in the Regional Championship Aggregate was 1682, outranking the same total turned in by Avery Burdette, 1680 fired by J. W. Thomas, 1679 of Jerry Fontanella, and 1675 of John Flaherty.

The high man in each class who won himself a free trip to the National Matches at Camp Perry was: Expert, C. R. Funderburk, Jr., 1671; Sharpshooter, Robert Beekman, 1564; Marksman First Class, Arthur Young, Jr., 1560; Marksman, Evelyn Harger, 1447.

☆ ☆ ☆

The Second Annual South Florida Spring Rifle Championships were held in West Palm Beach, Florida, on June 1st and 2nd. R. O. Sinclaire, of Palm Beach, won the Grand Aggregate with his score of 3165-169X. Second place went to L. W. Abrahms, of Clearwater, while G. W. Lewallen, of St. Petersburg, took third. Their respective scores were 3150-146X and 3147-146X. Championship class winners were: Sharpshooter, Mrs. Gwen Rossman, of Hollywood, with 3126-125X, and Olof Owra, also of Hollywood, with 3051-79X.

☆ ☆ ☆

At the Colorado State Smallbore Rifle Tournament, June 16th, match officials had to press old-line pistol shooters into service as range officers and statistical officers. Reaction was expected and came, but the pistol shooters had a time at their jobs. Rifle shooting seems to be booming in that area, just as

pistol shooting is. A. A. Nauman, won both the Grand Aggregate and the aggregate of matches 2, 3, and 4. A. M. Hoover placed first in the aggregate of the other matches.

☆ ☆ ☆

The Sea Girt Smallbore Championship went unclaimed because Ole Man Weatha' spoiled the second day's firing of the match held June 1st and 2nd. Four matches were fired on the first day. Rans Triggs and Dave Carlson split these, each taking two. Triggs won the 50-yard, Metallic, and the 50-meter, Metallic, scoring 398-33X in the first and 398-24X in the second. Carlson's scores were 195 in the 100-yard, International Target Match, and 400-25X in the 100-yard, Any Sight affair. This last won him the Bausch and Lomb Trophy.

☆ ☆ ☆

The Fourth Annual Mississippi Valley Pistol Tournament, held in Davenport, Iowa, on June 9th, went to Francis O'Connor of the Kansas City, Missouri, police force. He scored a 1691 for first honors. Charles Rossi of Corpus Christi, Texas, and Captain Byron Engle, Director of the Kansas City Police Academy, tied for second place, both scoring 1661. Oden R. Griffith, of Davenport, Iowa, was first ranking Expert, 1627, and high Sharpshooter with 1590 was Homer Barclay. R. N. Sappe took the Marksman First Class with 1545. Marksman winner was Anne Lillie who scored a 1473.

O'Connor

☆ ☆ ☆

Jerry Jones was winner of the Oregon Gun Annual Outdoor Rifle Tournament on June 16th. Jones won the Metallic Sight 50-Meters event, 198-13X; the Any Sight 50-Yard match, 400-33X; the Metallic Dewar, 400. The only other individual match went to L. P. Byrne, Jr. His 398-28X in the 100-Yard Any-Sight match was tops in that event.

☆ ☆ ☆

Marine Master Gunnery Sergeant Thomas L. Jones is the new California .30 caliber rifle champion. Firing the National Match Rifle Course at this match, held May 31st to June 2nd, in San Diego, California, under the auspices of the California State Association, he scored 479. Dr. Philipp Philbrook, of Oxnard, California, was the runner-up to Jones, scoring 473.

☆ ☆ ☆

The Peach Blossom Rifle Match of the Grandmere Rifle Club was held May 12th in Stevensville, Michigan. Robert Spahr, of Highland Park, Illinois, copped the Tournament Aggregate with a 1576. E. D. Bench, of Winnetka, Illinois, scored 399 to win the Any Sight 50-yard match. Winner of the Iron Sight Dewar event was Herman Prins, of Holland, Michigan, scoring 392. Albert Hathaway, of Kalamazoo, Michigan, was high man in the Any Sight 50-Meter affair with his 395. Spahr picked up the Any Sight Dewar with a 397. In the Pope Offhand Free Rifle match, Waldo Seagley of Topeka, Indiana, scored 171 to take top honors.

☆ ☆ ☆

High light of the Southern California Pistol and Revolver League Tournament, May 19th, was Basil Sharkey's 198 for the .45 Caliber Timed Fire Match, only one point below the National Record. Marshall Graham, of Los Angeles, won the .22 National Match event with a 291. Starkey captured first place in another individual match, the center-fire NRA Short Course, this time scoring 288. A. M. Perez, of Los Angeles, grabbed the center-fire National Match Course with 283. Starkey's consistent fine shooting was rewarded with first place (score 1052) in the aggregate.

☆ ☆ ☆

The Rochester Rifle Club had a tough time running their first registered tournament on May 26th. The shooters fought in the rain all day, but some managed to chalk up worthwhile scores. 200-12X won the 50-Meter Event for Floyd Schrader, of Buffalo, New York. Greg Allen, of Elmira, scraped together a 200-18X to take the 50-Yard Match. The Dewar went to Bill Curry, of Seneca Falls, with 398-25X. Allen also won the 20-shot at 100 yards, scoring 200-12X. In the 40-shot at 100 Yards Match, Dr. Ben Bohall, of Oswego, was tops with 400-18X.

☆ ☆ ☆

The Izaak Walton League pistol match was attended by the largest number of competitors ever to turn out for a shoot in the Denver area. J. Schooley was the match winner, taking the Grand Aggregate with a 1566. L. D. Parker was runner-up with 1537. The high light of the tournament was when E. E. Montgomery stepped up to the firing line four times and walked away with four marksman medals. He's just a young novice to the game—only seventy-odd years old.

☆ ☆ ☆

The Southwestern Smallbore Tournament of the Trinity Rifle Club was held May 11th and 12th, in Dallas, Texas. Hugh White won the Grand Aggregate with a 3168 out of a possible 3200. Laurence Moore of Camp Head, Texas, was high in the Metallic Sight Aggregate, scoring 1580. The Any Sight Aggregate was taken by R. C. Pope's 1596.

☆ ☆ ☆

Dave Carlson won the Grand Aggregate at the 12th Annual Hudson Valley Smallbore Championship, held May 19th, in Poughkeepsie, New York. The Hudson Valley Championship went to Walter Tomsen, while Jack Lacy took first in the Hudson Valley Wimbledon, 20 shots fired at 200 yards, Any Sights. F. O. Kuhn won both the Metallic Sight Dewar and the Any Sight 50-yard match, scoring 399-22X and 400-29X. Eric Johnson beat out M. Balestreri by 2X's to win the 100-yard Any-Sight Match with 399-27X.

F. O. Kuhn

Carlson

☆ ☆ ☆

At the Sheridan Rifle and Pistol Club's registered match on May 26th, E. D. Bench, of Winnetka, Illinois, ran away with the Grand Aggregate with his 1575-78X. Herman Prins, of Holland, Michigan, grabbed second place with a 1572-67X score. Third place went to John Perzo, of Gary, Indiana, and his 1571-66X.

☆ ☆ ☆

The Western Maryland Rifle Championship went to an eighteen-year-old shooter, Arthur Cook, of Washington, D. C. At this match, held on May 26th, in Frostburg, Maryland. Cook scored 797-59X out of an 800 possible to defeat many top shooters in the East. Charles E. Whipple, of Pittsburgh, and Adelaide McCord, of Sewickley, Pennsylvania, finished second and third with 797-46X and 795-52X, respectively.

Cook

☆ ☆ ☆

Thurman Randle won the Grand Aggregate in the Magic Empire Rifle Tournament, held in Tulsa, Oklahoma, over June 15th and 16th. R. A. Newcomb was the only man to take two individual matches in the tournament. He won the 100-Yard Any-Sight Match with 399; the 50 Meter Any Sight Match. Newcomb was the high Master in the aggregate. High Expert was Frank Parks, Tulsa, while high Sharpshooter was J. M. Fernandez, Lafayette, Louisiana. A Joplin, Missouri, shooter, Roy W. Freeman, was winner in the Marksman Class.

☆ ☆ ☆

The Michigan Outdoor Junior State Rifle Championships were fired in Wyandotte, Michigan, on June 9th. The match, sponsored by the Wyandotte Recreation Department, drew well over 100 entrants. Carl Unger was the high individual in the day's shooting, scoring 386-14X to win the C. H. Vincent Trophy. Two girls, Ishel Leah and Janet Bell fired 194-3X and 192-5X to win the 50-yard and the 100-yard matches. The Wyandotte Club's team took first place in the team event. This team was composed of Unger, George Harris, Bob Lowery, and Allen Branch. Their score was 1519-39X.

☆ ☆ ☆

The District of Columbia Pistol and Revolver Championships were almost monopolized by the Marines from Quantico, Virginia. The Marine Team won all team matches and Walter Walsh and "Smitty" Brown copped all but two of the individual matches, one of which was taken by W. L. Devine, another Marine. Robert Mansell, a member of the 12th Precinct Pistol Club, sponsors of the tournament, was the only local ace to take first place in a match. Walter Walsh won the Grand Aggregate, the Center-fire Aggregate and the .22 Aggregate. He couldn't quite beat out Alice Mathews, of Broomall, Pennsylvania, for the Ladies' Aggregate.

COMING EVENTS

The four classes of registered tournaments are indicated as follows: AA—National Matches; A—Regionals; B—State championships and large district matches; C—Local. Unregistered and Unclassified are so indicated, as are tournaments requiring pre-entries or limiting entries.

AUGUST

3-4, New Jersey (B)—Sea Girt Smallbore Championships. Charles Walter, 497 Cornell St., Perth Amboy.
3-4, New York (B)—Southern Tier Smallbore Championships, at Breesport. Clyde Curren, 252 Home Street, Elmira.
10-11, Georgia (B)—State Pistol & Revolver Championship. Major Edwin Harding, Jr., Finance Officer, Fort McPherson.
10-11, Wisconsin (B)—State Smallbore Matches. Oliver Moody, 5527 N. 35th Street, Milwaukee 9.
10-11, Ohio (C)—13th Annual Fort Harmar Open Rifle. H. W. Meiser, 621 7th Street, Marietta.
10-11, Ohio (B)—State Pistol Match, at Columbus. Charles Kallensee, 3917 E. Third Street, Dayton.
10-11, Washington (A)—Pacific Northwestern Regional Pistol. Walter Day, 2339 43rd North, Seattle.
10-11, New York (A)—Northeastern Regional Pistol, at Albany. Harry Palmer, 505 Glen Avenue, Scotia.
11, New York (C)—Smallbore Rifle Match at Bethpage. V. B. Cleaver, Box 356, Hicksville.
11, Indiana (C)—Third Lead Squirters Picnic. Miss Waunelia Heise, 333 Warren Building, Michigan City.
11, California (Unregistered)—Bay District Smallbore. C. DeWitt, 3701 Lincoln Avenue, Oakland.
11, New York (C)—8th Annual Smallbore Tournament, at Marilla. Carl Petri, 12 Magnolia Avenue, Buffalo.
11, Maine (B)—State Pistol Tournament. Lester Clark, 7 Wilson Street, Auburn.
11, Florida (C)—Tampa Police Pistol Club Match. P. J. Hastings, Route 4, Box 3167, Tampa.
16-17-18, Iowa (A)—Midwestern Regional Pistol Tournament. Carl Prevratil, 2022 West 10th Street, Davenport.
17-18, Michigan (Unregistered)—.30 Caliber Rifle Tournament, at Grayling. Frank Elwell, 2250 Nolen Drive, Flint 4.
17-18, Utah (B)—State .30 Caliber Tournament, at Ft. Douglas. David Sugden, N. 7th West, Salt Lake City 3.
18, Michigan (C)—S. E. Summer Rifle Tournament, at Wyandotte. W. S. Bailey, 1764 O'Connor, Lincoln Park 25
18, Michigan (Unregistered)—Smallbore Tournament, at Kalamazoo. Robert Ten Eyck, 147 Burgess Drive, Galesburg.
18, Massachusetts (C)—Outdor Rifle Tournament. Frank Hancock. 115 Main Street, Shelburne Falls.
18, Illinois (C)—Smallbore Rifle Tournament. Byron Putman, 814 Ellis Avenue, Wheaton.
18, Pennsylvania (C)—Outdoor Smallbore. Roy Bower, 420 E. 23rd Erie.
18, Pennsylvania (C)—Smallbore Tournament. Alfred Newhard, 111 E. Susquehanna Street, Allentown.
18, California (C)—San Francisco Police Monthly Pistol Tournament, at Lake Merced. Emile Dutil, 324 16th Street, San Francisco.
24, North Carolina (C)—.30 Caliber Tournament. E. J. Stoker, Box 687, Greensboro.
24-25, Washington (A)—Pacific Northwestern Regional Rifle Tournament. Walter Day, 2339 43rd North, Seattle.
24-25, Louisiana (B)—State Pistol Matches. Lewin Semon, Box 505, Shreveport.
25, New York (C)—8th Annual Rifle Tournament, at Buffalo. M. L. Baker, 359 Wardman Road, Kenmore 17.
25, Pennsylvania (C)—Outdoor Smallbore Tournament. Mary Jane Oster, 2800 Township Line, Llanerch.
25, Pennsylvania (C)—Outdoor Smallbore. James Affleck, Box 2038, Pittsburgh 30. Restricted to Masters and Experts, 40 competitors only.
25, Vermont (B)—State Small bore Tournament. P. H. Teachout, East Burke.
25, Michigan (C) Annual Midsummer Pistol Tournament. Kenneth Gilman, 1330 Begole Street, Flint 4.
25, Illinois (B)—State .45 Caliber Pistol Tournament. Thomas Blakemore, 5004 W. Huron Street, Chicago 44.
25, New York (C)—Oneida Smallbore Tournament. E. H. Matteson, Oneida.
31 & Sept. 1, New York (C)—Fall Championship Pistol Tournament, at Bethpage. V. B. Cleaver, Box 356, Hicksville.
31 & Sept. 1-2, Maine (Unregistered)—8th Labor Day Rifle & Pistol Re-entry Matches. Verne Batteese, Damariscotta.

SEPTEMBER

1, Kansas (Unregistered)—7th Annual Sunflower Smallbore. A. A. Fluke, 317 Western Ave., Topeka.
1, Illinois (Unregistered)—American Legion .30 Caliber Tournament, at Ft. Sheridan. Thomas Blakemore, 5004 W. Huron Street, Chicago.
1, South Dakota (C)—5th Fall Smallbore. Herman Chapman, 504 Security Bank Building, Sioux Falls.
1, California (Unregistered)—Southland Pistol Matches. R. S. Pease, Route 3, Box 84, San Diego.
1, California (Unregistered)—Oakland Pistol. John Valerga, Jr., 3800 Cerrito Avenue, Oakland 11.
1-2, Louisiana (B)—7th Annual Smallbore, at Harahan. C. L. Monnot, 5820 Perrier, New Orleans.
1-2, West Virginia (C)—9th Mountain State Pistol. R. A. Simpson, 212 West 10th Street, Parkersburg.
1-2, Pennsylvania (B)—State Rifle Tournament. R. B. Barry, 407 2nd Avenue, Altoona.
7-8, California (C)—Northern California Championship. C. De Witt, 3701 Lincoln Avenue, Oakland.
8, New York (B)—Smallbore Rifle Match, at Bethpage. V. B. Cleaver, Box 356, Hicksville.
8, Illinois (C)—Annual Fall Harvest Pistol Match. Robert Jordan, 50 Waukegan Road, Deerfield.
8, Pennsylvania (C)—Philadelphia Area Fall Smallbore, at Cold Point. Gustave Irlenborn, 502 Lorraine Avenue, Oreland.
8, Connecticut (Unregistered)—Annual Pistol & Revolver Match. B. P. Richardson, Cos Cob.
14-15, Louisiana (C)—Southern Louisiana Pistol at Harahan. C. L. Monnot, 3820 Perrier, New Orleans.
14-15, Massachusetts (Unregistered)—Annual Outdoor Rifle and Pistol Merchandise Shoot. Robert March, 4 Pine Hill Circle, Wakefield.
15, Illinois (Unregistered)—I.S.R.A. State Championship at Fort Sheridan. Thomas Blakemore, 5004 W. Huron Street, Chicago 44.
15, Pennsylvania (C)—Kittanning Fall Match. E. W. Cook, 926 Orr Avenue, Kittanning.
15, Michigan (C)—Smallbore Tournament. Lawry Hermesdorf, 676 Randall Road, Muskegon.
15, Wisconsin (C)—Fall Smallbore Match. J. Gruber, 2265 North 64th Street, Milwaukee 13.
15, Michigan (C)—Peach Harvest Rifle Match. Forrest Moreland, 828 Lewis Avenue, St. Joseph.
15, Iowa (C)—American Legion Post 26 5th Pistol. Carl Prevratil, 2022 West 10th Street, Davenport.
15, Michigan (C)—Great Lakes Steel Rifle, Wyandotte. Clarence Eliason, 15019 Cleophus, Allen Park.
15, Maryland (B)—Fourth Pistol, Sparrows Point. Mrs. Elsie Penn, 4027 Roland Avenue, Baltimore.
15, New York (C)—Indian Summer Smallbore, Breesport. Cylde Curren, 252 Home Street, Elmira.
20-21-22, California (C)—Western States Championship Pistol. Lt. A. M. Strand, Box 471, Los Angeles.
21-22, Ohio (C)—10th Annual Wilmo Smallbore Tournament, at Mt. Healthy. Betty Vandeveer, 8000 Hamilton Avenue, Cincinnati 31.
22, Illinois (Unregistered)—I.S.R.A. State Championship Tournament, at Ft. Sheridan Thomas Blakemore, 5004 W. Huron Street, Chicago 44.
22, Michigan (C)—Annual Fall Smallbore. A. J. Marzhausen, 2521 Thomas Street, Flint 4.
22, Georgia (C)—Outdoor Pistol Tournament. Wm. E. Fennell, Box 100, Gainesville.
22, Connecticut (Unregistered)—Eastern States Muzzle Loader Championship. B. P. Richardson, Cos Cob.
22, New York (C)—Smallbore Rifle Match, at Bethpage. V. B. Cleaver, Box 356, Hicksville.
22, Pennsylvania (C)—Smallbore Tournament. Alfred Newhard, 111 E. Susquehanna Street, Allentown.
28-29, Pennsylvania (B)—State Smallbore Rifle. Charles Senseman, 425 South 13th Street, Harrisburg.
29, Illinois (Unregistered)—American Legion League Special Course Tournament, at Fort Sheridan. Thomas Blakemore, 5004 W. Huron Street, Chicago.
29, Michigan (Unregistered)—Smallbore Rifle Tournament, at Kalamazoo, Robert Ten Eyck, 147 Burgess Drive, Galesburg.
29, Georgia (C)—Smallbore Rifle Tournament. Wm. E. Fennell, Box 100, Gainesville.

The JUNIOR MARKSMAN

BETHPAGE JUNIOR MATCH

On June 15th, the Gunner's Club of Long Island, N. Y., sponsored something new in registered competition. This particular match, set up and conducted as a Class C Senior Outdoor Tournament, was open only to juniors. The youngsters fired a series of matches similar to those fired in adult competition, except that more team matches were in evidence. This was a good thing, since it allowed the less experienced youngsters to be coached while firing under conditions new to them.

The winning team in this Dewar Team affair was from the Hempstead, L. I., High School. Composed of Audrey Bockmann, Hill Weisenborn, Matthew Bonora, and John Udris, this team scored 1527-40x to win from the other six team entries.

The Senior NRA Classification System was applied in this match and it was interesting to note that nine of the 38 youngsters in attendance had such a classification. There was one Master, Audrey Bockmann of New Jersey, no Experts, one Sharpshooter, five Marksmen First Class, and two Marksmen.

One thing was well worthy of noting, since it was commented on by all the adults at the match. The behavior and range discipline of these youngsters was absolutely perfect. During the entire day's firing, there was no need to caution a single competitor regarding range safety, loud talking, or horseplay. Every youngster was on his firing point when the Range Officer checked the firing line. There was not an early shot fired nor a late one, although some of the young Cadets, sons of members of the N. Y. State Guard, failed to complete firing in the time limit during the first match or two. C. R. Rogers, of the NRA staff, commented, "I have never seen a senior match where the cooperation and behavior of the competitors was as exemplary. If this match was a sample of what might be expected in junior competition, I think any senior club sponsoring a similar match will be mighty pleased with the behavior of the youngsters on the range."

Although scores in general were low, due to the inexperience of most of these youngsters, one new National Junior Record was set by Audrey Bockmann. She fired a 200 "Possible" with 15X's in the 100-yard any-sight match.

Mr. Rogers, in commenting on this match, went on to say, "I believe without any doubt this match proves the practicability of Junior Outdoor Registered Tournaments. However, I do feel that the match program should be lightened somewhat for these youngsters. Most of them were completely tuckered out about two-thirds of the way through the program, although they all fired the entire 120 shots scheduled."

The first three place winners in each individual match were:

20 shots at 50 yards, metallic sights

1. Audrey Bockmann (M)	199-10x
2. Robert S. Stich (MK)	198-8x
3. Wallace Beinfeld (U)	196-9x

20 shots at 100 yards, metallic sights

1. Audrey Bockmann (M)	195-9x
2. Mike Balsan, Jr. (SS)	194-7x
3. Wallace Beinfeld (U)	194-5x

20 shots at 100 yards, any sights

1. Audrey Bockmann (M)	200-13x
2. Mike Balsan, Jr. (SS)	195-5x
3. John Udris (SS)	194-9x

Two-man teams, 20 shots at 50 yards, any sights

1. Bockmann & H. Weissenborn	395-21x
2. Fritschi & Pugh	394-20x
3. Udris & Beinfeld	392-19x

Grand Aggregate

1. Audrey Bockmann (M)	1185-64x
2. Wallace Beinfeld (EX)	1173-45x
3. John Udris (SS)	1165-41x

DOPE BAG

Conducted by Major General J. S. Hatcher
Edwards Brown, Jr., A. H. Barr, J. L. Murphy, J. S. Rose

THIS MONTH:

The M2 Springfield · The Single Shots German Ammo · Chucking with the .22 Rim Fires · Gun Sling Corrosion Reloading Tools · Powder Variation .300 Magnum in '17's · IMR 4895 Powder Cleaning Rod Standardization · Coating Scratched Lenses · .255 Dean · The 1917 Enfield Action · Reheat-Treating Novelty Target · .303 Non-interchangeability · Barrel Threads · Trade Dope

THE .22 SPRINGFIELD M2

"In the June issue of THE RIFLEMAN you answered a letter regarding the best target rifles. In your answer you mentioned that the Winchester 52 and the Remington 37 are on the top of the heap.

"I just bought a .22 Caliber M2 Springfield from the D. C. M. What I would like to know is why this fine rifle is not mentioned in your answer and just how it compares with the Winchester 52 and Remington 37."—CARL A. KAISER, Milwaukee, Wis.

Answer: In my discussion of target rifles in the June Dope Bag I was covering the current commercial models only. This was chiefly for the benefit of the new shooter who is considering the purchase of a target rifle. I should have mentioned the U. S. Rifle, caliber .22, M2, since it has recently been in the market, though none have been available since May.

The M2 .22 caliber is a fine rifle and can give you accuracy comparable with other target models. However, from some standpoints, including appearance, I do not consider it on a par with the high-grade commercial models. For one thing, the barrel and action are Parkerized rather than blued. Further, it does not have the weight, wide fore-end, or the adjustable front swivel and hand stop which have gained popularity with the average target shooter. However, weight is not essential for accuracy. I took a Winchester 52 standard barrel out on the range the other day and it performed well within the ten ring, with a high percentage of X's. Nevertheless, most small-bore shooters like the heavier rifles for prone work. As I stated in my previous Dope Bag answer, there is a large personal taste factor involved, just as there is with a suit of clothes, and I am not trying to convince you that the M2 is not the best target rifle for you. In my opinion, however, it is not in the same class with the Winchester 52, Remington 37, or the Stevens Walnut Hill 417 as far as commercial models go.

I have seen very few of these Springfield .22 rifles on the firing line at matches that had not been restocked and rebarreled. The M1922 and M1 U. S. Rifle Caliber .22, unless they have been assembled with the M2 bolt, have the slow lock time which is a definite disadvantage.

These U. S. Rifles were discussed with more detail in the article "D. C. M. Shopper's Guide" in the April, 1946 issue of THE AMERICAN RIFLEMAN.—E. B.

THE SINGLE SHOTS

"I enjoyed your comments in the June Dope Bag in regard to the best target rifle. Undoubtedly you'll hear (if you haven't heard already) from the single-shot fans for not mentioning the fine B. S. A. and Vickers Martini action jobs, and especially the ancient and honorable Ballard. Of course, these are not very popular or readily available, being either 'furriners' or custom-built, and the omission is understandable. They certainly have some representation on the firing lines, however, and win even more than their share of matches.

"I was a bit surprised, too, that you didn't comment more favorably on the Stevens 417. In my opinion it is a far better balanced outfit for position work than either the 52 (especially the heavy barrel) or the 37, which are essentially prone rifles. This was clearly demonstrated by a certain team from this city which won the recent nationwide Hearst competition and the California State Gallery championship. Three of the men used Stevens 417s, the fourth a B. S. A., the fifth a heavy-barrel 52 with barrel cut to 24 inches. All had custom stocks.

"When the Stevens 417 is again produced it will undoubtedly be in an improved version with adjustable trigger pull, drawbolt through the buttstock, etc., and should certainly gain in popularity. I admire Stevens very much for continuing to manufacture their fine single shots through the years and not going entirely overboard as a result of bolt-action propaganda. I'll bet Winchester deeply regrets the discontinuance of their famous single-shot line now that they're again popular, especially as varmint rifles.

"I suppose I might as well add my plea at this time for a truly modern single-shot rifle in both rim and center fire in various calibers, barrel weights, stocks, sights and even set triggers and engraving if you want 'em.

"I honestly believe some manufacturer is missing the boat by not producing such a model, although it would certainly be a costly and courageous undertaking from a manufacturing standpoint, especially starting from scratch."—F. A. Hall, San Francisco, Calif.

Answer: It was not my intention to slight the single-shot lever actions but I was answering a letter from a man who was asking for information on the commercial models available on the market. Some mighty accurate target rifles are built around single actions. Outside of the Stevens Walnut Hill these are usually made with custom stocks and barrels.

On April 28 I attended the small-bore rifle match held by the Gunners' Club of Long Island, Inc. At this match I saw more custom fitted rifles making use of Ballards, B. S. A.'s etc., than I have ever seen at a match before. I ran into Ranse Triggs and Bill Schweitzer, who used to be bolt-action users at Camp Perry, each toting one of these single shots.

MAKE SURE OF YOUR AMMUNITION

Charles M. Holden, Cuyahoga Falls, Ohio, sends us the accompanying picture of a German custom-made sporter. This gun was built around a Mauser action and is stamped 7.7 mm. A 7.92 mm. German military cartridge, Model 1898, was fired in this rifle. The result is shown in the photo.

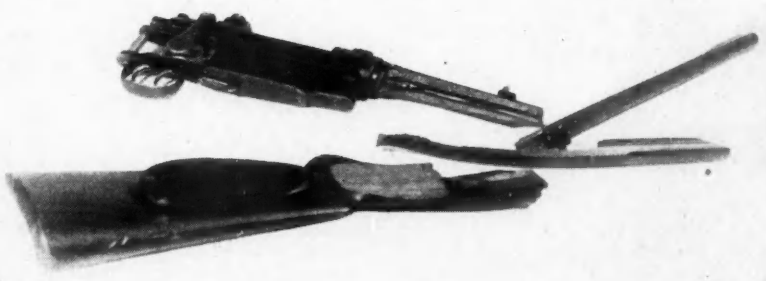
German custom gunsmiths generally stamp the bore diameter on their rifles. The bore of rifles made for the 8 mm. cartridge, Model of 1888, is approximately .303 inch or 7.7 mm., and the groove diameter is from .317 to .320 inch. It is this cartridge with a bullet diameter of .317 for which the shattered sporter was undoubtedly chambered.

The 7.92 mm. German military cartridge, Model of 1898, has a bullet diameter of .323 inch, and the bore runs about .312 with a groove diameter of .323 to .326 inch.

The military 7.92 cartridge, Model of 1898, not only has a bullet of larger diameter than the 1888 variety, but, in addition, is loaded to a higher chamber pressure.

As Mr. Holden points out, this should serve as a warning to individuals having foreign sporting rifles. They are usually O. K. if used with the *correct* ammo. Check your rifle by making a sulphur cast of the chamber, and even if you are sure the case will fit, check the bore by pushing a lead slug through it and measuring to make sure it will take the bullet you intend to use.

Unfamiliar foreign rifle and wrong cartridge caused this blow-up.



Triggs won the aggregate and Schweitzer came in fourth. Of course, before the war, they both were winning with the bolt actions.

You have made a good point in regard to position shooting. The single shots, by virtue of the shorter actions, do balance nicely for this type of competition. Let's ring up one for the Stevens 417.

All of which goes to show that no one can tell you, as an individual, exactly which rifle to buy. The only opinion which can be safely ventured is one as to the types with which you can't go far astray. The rest is up to you.—E. B.

CHUCKING WITH THE .22 RIM FIRE

"My friends and I were wondering if you could help answer a few questions that have been bothering us. This summer, starting July 1, we plan to do some chuck hunting, but because of the shortage of rifles and ammo we are confined to using .22 caliber rifles. Two of us have Winchester 75's and one a Remington 513-T. We have some Remington High-Speed, some open nose, some regular.

"Our questions are the following: Will these cartridges kill chucks? What are their effective ranges in the above-mentioned rifles? Will the open-nose and regular-nosed bullets have different points of impact? How do these bullets open up in woodchucks? How does the wind and temperature affect these bullets? Can you possibly send us a range chart for this ammo?

"We know this is a big order, but we would really like this information. The three of us leave on a chuck-extermination mission on July 1 and if it is possible, we would like to have all of that information before we leave. Thanks!"—ROBERT MADDOCKS, New York.

Answer: I have your letter stating that you plan a hunting trip this summer starting July 1, and that you have woodchucks particularly in mind. With two Winchester Model 75's and a Remington Model 513-T, I would say that you are well gunned for having a lot of fun on your hunting trip. Those .22 Long Rifle cartridges will kill woodchucks. Of course, people differ in their point of view, but I am convinced that hunting anything up to and including woodchucks is a sporting proposition with the .22 Long Rifle.

The Long Rifle hollow-point bullet will open up nicely on woodchucks and is very damaging, and it has plenty of killing power. I have shot a lot of game with the solid bullet as well, and I believe that very little if any game that was hit got away from me.

When using the .22 Long Rifle, you may have to use some ingenuity in getting within range of your game, and you will have to do some range estimation. The latter two abilities at short range are more of a factor when hunting with the Long Rifle than with the high-powered cartridges. This injects a sporting element into the game which can make it all the more interesting. With the .22 Long Rifle you have the advantage of being able to shoot in some places where you would not be able to use the high-powered rifle.

In your letter you did not state whether you were intending to use iron sights or scope sights. Scope sights would, I think, make your trip more interesting. This is just one man's opinion but I believe that there are two ways of hunting woodchucks with the .22 Long Rifle. Method One: Using a target rifle with a scope sight mounted and sighted in for 75 yards. For ammunition, use the regular or match variety. With this combination you should be able to get 1½ inch ten-shot group accuracy at 100 yards. With your rifle sighted in at 75 yards, your shots will be approximately 1¾ inches high at 50 yards, and approximately 3 inches low at 100 yards. Equipped with this outfit, I would try to take all of my shots within 100 yards and shoot for the head only. Estimate your range and hold over or under in accordance with the above-mentioned figures. Method Two: Use a match or hunting rifle with scope sights as first choice and iron sights as second choice, and sight in for 100 yards. For method two I would use Long Rifle hollow-point high-velocity cartridges, and take shots up to 150 yards. With this cartridge sighted in at 100 yards, your shot would be approximately 2½ inches high at 50 yards and 15½ inches low at 150 yards. With this combination, I would shoot at the chuck and not confine myself strictly to head shots, while taking shots up to and including 150 yards.

The wind will affect your bullets. In the May issue of THE AMERICAN RIFLEMAN you will find an article "Wind Dopes." On the last page is a rough formula for figuring your wind deflection. Before you go on your trip I suggest that you take your rifles out and sight them in, and actually see for yourself how much they go high at short ranges, and low at the longer ranges. While getting in some practice at estimating wind, you can see how much your bullets are deflected. This wind doping takes practice and you will have to develop a sort of natural "feel" for the necessary wind allowances.—E. B.

Here is Mr. Maddocks' story of his trip:

"First of all, I want to thank you for your prompt answer to my letter on woodchuck hunting with the .22 rim fire. I have just returned with my tale of woe!

"As I failed to tell you in my last letter, I had my Model 75 equipped with a Weaver 29S. This was the first of my worries. I hadn't a chance to bore sight the scope before; in fact, this was the first time I had ever shot with a scope of my own. Needless to say, my efforts to sight it in were all 'snafu.' When I finally changed back to my iron sights, I found that I had not brought extra inserts, and so I was handicapped into using my target aperture for hunting.

"All went well, however, except for one chance I fluked. . . . My two friends had gone to explore an adjoining field, and I stood in our position with a youngster who was with us. The sound of frequent shooting from my companions did not console me. I was sweeping the field with my 8X glasses when I spotted a chuck as big as a barn. Taking down the glasses and warning the boy not to make a sound, I studied the chuck, sitting up against a fence not over 50 yards away. This was the kind of a shot a person reads about in the magazines, I slowly worked my way into a prone position, while I told myself that if the chuck obligingly waited this was going to be the perfect shot. Soon my position was checked and the aperture circled the chuck's head the way it circles the black bulls on the club range. The rifle was as steady as a rock when I started my slow squeeze on the trigger . . . but nothing happened! I checked the safety; all right. Then, it dawned on me . . . I quickly chambered a hollow point and steadied down. The chuck was still there as I squeezed off. Then, to my amazement and before I could get off another shot, the chuck nonchalantly dropped to all fours and waddled off into the thick bushes covering the fence! From the sound of the shot and the absence of a dirt spout, I knew the shot had been high; but I was positive of my hold. Finally I remembered that my 75 was sighted in for 80-90 yards! I nearly kicked myself and the rifle from here to Hell and back, besides which I am positive I destroyed the boy's faith in position shooting and doomed myself to his never-ending ridicule.

"The two shots I want to tell you about were fired by my two friends. Walter's was a prone shot at about 130 long paces. The chuck was standing up on his hind legs, and the bullet entered the left side and came out on the opposite side a little lower. His head and forelegs were still moving as the *'coup de grace'* was administered. Even though Walter had used hollow-point Hi-Speed Remington ammunition, the bullet had slowed enough that it failed to open completely. It made about a .30 caliber hole on the exit side, doing much tissue damage. I believe the lower part of the body had been paralyzed by the shock to the spine, as described in the NRA booklet, 'Killing Power.'

"Donald's shot was entirely different, at about 30 or 40 yards offhand, using a fence as a rest. The chuck was flat on his tummy, sunning himself. The hollow-point .22 hit his head. The chuck jumped about four feet and was dead when Don arrived at its body. The bullet had disintegrated completely! There was no exit hole whatsoever. The bullet had shattered the skull completely and thrown fragments through the skin out of the entrance side as a shell throws dirt and metal into the air when it hits the ground.

"Other hollow-point bullets fired at extremely close range on the dead carcass also failed to produce any exit hole, and a solid nose Hi-Speed also failed to exit! I believe the latter was deflected or shattered in the body by some bone structure.

"We had no trouble from wind, and so hadn't any opportunity to experiment with wind doping."—ROBERT MADDOCKS.

REMOVING CORROSION FROM GUN SLINGS

In the June 1 Bulletin of the Palm Beach Rifle and Revolver Club we note that the green corrosion which appears sooner or later on most gun slings around the brass fittings and also on holsters, can, as they put it, be removed with ridiculous ease in a very few minutes. Simply scrub it off, using an old toothbrush dipped in carbon tetrachloride, Carbona or any similar clearing solvent. It comes off like butter and very little effort is needed. If this appears to remove too much of the oil in the sling, follow up by applying a little neats-foot oil, Viscol or some other leather softener.

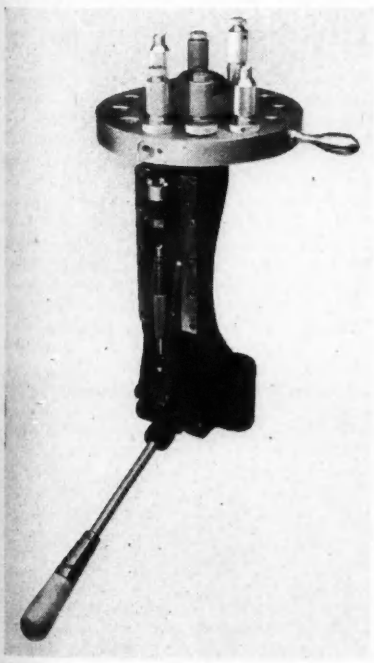
RELOADING TOOLS

The Universal is really not a new tool. It has been on the market for about ten years. Not so long ago the Hollywood Gun Shop acquired manufacturing rights, so the tool is now available with dies for most calibers. The Universal is a sturdy tool standing about seventeen inches high to the top of the turret head. Complete, the tool weighs about forty pounds.

There are two models, A and B. The only difference is in the three-hole rotating turret head of the Model A, which accommodates sizing die, powder measure adapter, and bullet seater for one caliber. There are three corresponding index stops for these units. The Model B rotating turret head is a large casting nine inches in diameter and one and one-sixteenth inches thick. There are twelve indexes for as many dies and powder measure units. When not set up for the powder measure, there is space to set up for six different cartridges without changing dies. The dies have knurled locking rings complete with Allen locking screws. This feature is quite desirable, as the die for any caliber, once set, can be removed or replaced without altering the adjustment. Many other good tools have this type of locking ring.

The shell holder and priming rod assembly are quick-change, being anchored by large nuts. The shell holder carriage moves a distance of four inches in an absolutely straight line, being guided by two heavy, flat plates anchored to the tool by means of screws. All loading is done as the operating handle is lifted, except for primer seating. The tool must, therefore, be securely anchored to a rigid bench.

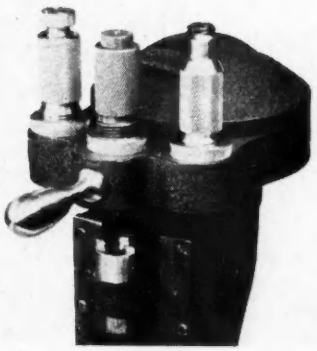
Adapters are available to fit any standard powder measure, but the tool can be set up for use without one.

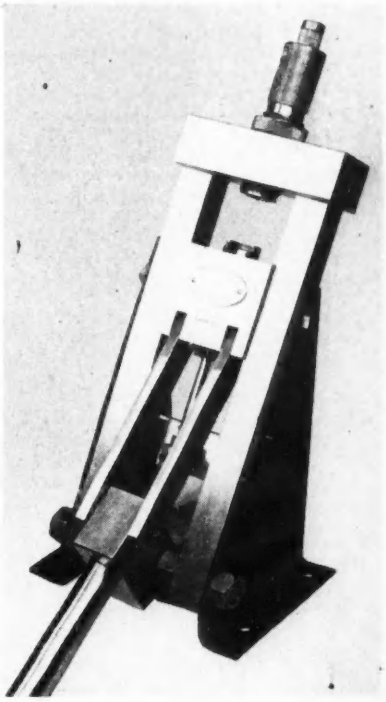


The Big Giant Reloader, made by A. A. Easton, has some noticeable improvements over the first model we tried some years ago. The latest tool is heavier. The guide rails for the shell holder carriage are ¾-inch square steel bars. The die holder, for a single die at one time, is also a square stock (1 inch by 1¼ inches) and it is anchored to the ends of the guides by means of large bolts. It is a well-built tool.

The shell holder carriage travels a distance of only 2¾ inches. To offset this relatively short travel when seating bullets, there is a "floating" chamber in the seating die which guides the bullet and case up to the bullet seating punch.

When the operating handle is lifted to size a case, the spent primer drops clear of the tool, which is set at a 70° angle. The case is withdrawn from the die and at that point a new primer is inserted into a milled slot just below the cartridge head, in the shell holder. Final downward movement of the handle seats the new primer. Very accurate handloads have been made using this tool. Reasonable care must be used when inserting the primer in order to prevent it turning wrong side up. This can happen when the shell holder is too far away from the primer seating punch.





Above: Universal Model A reloading tool with three-hole rotating turret head. Left: Universal Model B with nine-inch rotating turret head and twelve indexes. Upper Right: The well-built Big Giant Reloader, improved over earlier models.

The only inconvenient part of reloading when using this tool is inserting the case, or case and bullet, into the shell holder which is located at the midpoint of the two-inch space between the guides.

The dies must be changed for each operation of resizing and bullet seating. These dies are made with extremely fine threads, and they cannot be used in any other make of tool.—A. H. B.

LOT TO LOT VARIATION IN POWDER

"For the past four months I have been loading for, and shooting, two M70 rifles, one a .250 Ackley Magnum Bull Gun and the other a standard .270. In the Magnum I used 58 grains of 4064 and an .046 graphite wad behind the 100 grain Weatherby bullet and in the .270, 54 grains of 4064 with no wad, behind the 100 grain Barnes bullet. No. 120 primers were used.

"Both rifles gave equally fine accuracy, with normal pressures. Recently, however, having exhausted the older supply of this powder, I started on the new, which was a different lot number. The .250 Magnum refused to take the new stuff.

"On the first shot the primer pocket enlarged to such an extent that gas escaped to the rear and the primer dropped out, after I hammered the action open! I fired another shot and the same thing happened. The .270 took it a little better, with slight extraction trouble, but no enlargement of the primer pocket, although accuracy suffered. I checked both powder charges on my sensitive Becker cabinet balance and they proved to be exactly the same as loaded before.

"From my experience I would advise handloaders to start about two grains below maximum charges when changing powder lots, then to work up gradually."—PHIL FINE, Baltimore, Md.

Answer: Thanks very much for your letter, which I think is worthy of space in the Dope Bag as a warning to readers who might go from one lot to another of the same brand of powder. It seems to me you were using very heavy loads to start with, and when you are loading close to the upper limits even the slightest change will make a noticeable difference. In fact, to my knowledge the heaviest load of No. 4064 listed by Ackley with the 100 grain bullet is 57 grains, giving 3307 f.s. velocity. The velocity figure seems quite low, because with 64 grains of No. 4350 with the same bullet he lists 3730 f.s.

Please keep us in mind when you run into any similar problems while reloading, as that is very useful dope.—A. H. B.

.300 MAGNUM IN 1917 RIFLES

Mr. R. P. Maynard, Box 139, Millbrae, Calif., writes that he has read an article which warns against rechambering the M1917 Enfield for the .300 Magnum. As a friend is having one rechambered for the .300 Magnum, he asks our opinion on this point.

The 1917 barrel has a pronounced reduction in diameter just forward of the chamber. The .300 Magnum cartridge is considerably longer than the .30-'06; hence when the 1917 is convert.d for this cartridge the chamber is pushed forward toward the reduced diameter, so that the wall over the forward part of the chamber becomes thinner.

Moreover, the .300 Magnum operates at a considerably higher pressure than the .30-'06, and with a larger chamber this high pressure is exerted on more surface, so the total stress on the barrel is much greater.

If there happened to be a seam or flaw in the steel, the combination of thinner wall and greater load could cause trouble. In fact, we know of at least two instances in which such a failure occurred.

In view of these facts we have never felt that we could recommend rechambering the 1917 for the .300 Magnum.

However, there are some gunsmiths who still feel that the chance of trouble is sufficiently remote to justify continuing to do this work.—J. S. H.

MORE DOPE ON NO. 4895 POWDER

We have been anxious to accumulate enough loading data on D. C. M. powder No. 4895 to enable us to help reloaders get a line on suitable charges for calibers other than the .30-'06. The only information we had when trying to find a load for heavy bullets in the .30-'06 and one .25 caliber Magnum was that furnished in the April, 1946 RIFLEMAN, page 19, and by Fred Whitlock, in the May, 1946 Dope Bag, using 150 grain M2 bullets and F. A. primers. Those loads indicated that possibly the recommended charges of du Pont No. 4064 could be used as a guide.

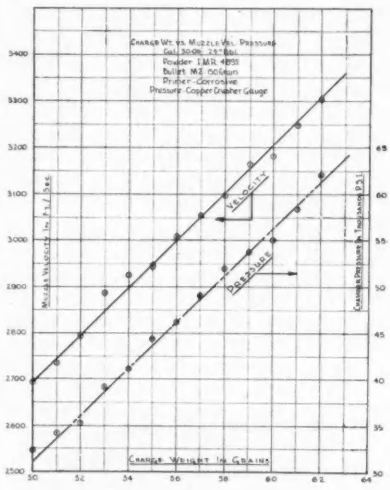
On that basis we tried 50.0 and 51.5 grains No. 4895 (Lot No. 2186) behind 172 grain and 180 grain boattail bullets in the .30-'06. Both charges were very accurate, except when using 51.5 grains behind the 180 grain bullet. That apparently was too much powder for accuracy, but none of the loads caused excessive pressure. F. A. 70 primers were used in all loads. For comparison, maximum recommended charges of No. 4064 powder, using the same F. A. primers are: 52 grains with the 172 grain bullet at 51.0 grains with the 180 grain bullet.

In our short .25 Ackley Magnum the best load with 90 grain Barnes bullets is 51.0 grains No. 4064 and R. A. No. 9½ or W. R. A. No. 120 primers. When trying No. 4895, exactly the same powder charge gave fine accuracy, grouping in 1.31 inches at 200 yards. One grain more was almost as good. All but one shot grouped in an inch at the same range. There was nothing to indicate excessive pressure, and apparently this load was the equivalent of 52.0 grains No. 4064 in the same case.

Now comes Major Walter R. Nass, Ordnance Department, with the following information based on actual tests made by him.

"Enclosed is a graph which I have prepared, showing the charge weight vs. muzzle velocity and chamber pressure of the .30-'06 cartridge employing IMR 4895 powder. The pressure data were obtained with the conventional copper cylinder, crusher gage and should not be construed as highly accurate.

"In addition to the above, I have enclosed a sheet with some further data on IMR 4895. This powder in general seems to produce higher velocities for a given pressure indica-



Graph showing pressures up to 62,000 pounds per square inch with IMR 4895 powder in the .30-'06. Normally, 55,000 pounds is maximum pressure for the strongest cases. To be on the safe side, handloaders should always load on the low side of safe pressure limits, in this case, to about 48,000 or 50,000 pounds per square inch.

tion than any of the commercial sporting powders that I have experimented with.

"I hope that this information will prove of value to you and if in the future I compile further data that I feel will interest you, I will pass them on to you.

"Loading data for IMR 4895 powder are:

Cal. 30-'06
24 Inch Bbl.
Bullet—110 grain, metal jacket
Primer—Corrosive
Velocity at 26½ feet—3456 f.s.
Chamber Pressure 48,000 p.s.i.
Charge Weight 62 Grains

"I have been using the above load for hawk and coyote hunting in my 30-'06 sporter, using a 10 power telescope. It is a fairly consistent performer and I have made some ⅞-inch groups with it at 100 yards using a rest."

.22 Caliber Wilson Arrow
24 inch Bbl. Model 70 Winchester Velocity at 51½ feet

Charge Weight (grains)	Bullet Weight (grains)	Velocity (f.s.)
36	55	4166
40	55	4364

We are much indebted to Major Nass for this fine information.—A. H. B.

CLEANING ROD STANDARDIZATION PROPOSED

On April 4, 1946, Mr. F. E. Powell, Division of Trade Standards of the National Bureau of Standards, called us regarding some inquiries he had received from makers of cleaning rods and brushes, concerning the possibility of standardizing the threads.

A preliminary survey covering fourteen makers showed that for .22 caliber brushes and attachments ten makers use threaded ends in the No. 8 size (.125 inch) with 32 threads per inch. This is one of the American Standard threads established by the National Screw Thread Commission some years ago. Two makers use the No. 7 size (.151 inch) with 32 threads, one maker uses 5/32 inch with 32 threads, and one maker does not produce .22 caliber rods. The No. 7-32 and the 5/32"-32 are not included in the American Standards for screw threads.

For larger sized rods, .30 caliber and the like, twelve makers use No. 8-32, one No. 7-32 and one No. 9-32.

In shotgun rods and attachments, six makers use only the 5/16-inch size with 24 threads, which is "National Fine" under the American Standard. Two use 5/16 inch with 27 threads, which is nonstandard. Three makers use 5/16 inch-24 or 5/16 inch-27, one uses 19/64 inch-26, one uses .295-28, and one uses No. 9-32.

On April 5 the National Rifle Association wrote to thirty-five firms listed in the Trade Directory as makers of gun cleaning implements, inviting attention to this confused situation:

"It is the feeling of the Association that considerable inconvenience to the users of your products would be avoided and that eventually it would act to the benefit of the manufacturers if this situation could be standardized so that one size could be used on all .22 and .30 caliber tips and one size for all shotgun tips.

"It would be very desirable if the sizes decided on were those corresponding to the American Standard for screw threads. Taps and dies for these sizes are available everywhere, even in the dime stores, and if, as so often happens, the threads on a rod or tip become battered or jammed, they could be cleaned up by the user with no difficulty."

Those manufacturers in favor of taking action toward a voluntary standardization were invited to write to Mr. Powell to this effect.

A number of manufacturers wrote to the Bureau of Standards as suggested, and on June 10 a meeting, presided over by Mr. Powell, was held at the National Bureau of Standards. This was attended by members of the industry, and by General Hatcher of the NRA. Prominent in the discussions which followed were Mr. E. J. Pardon, factory manager of the Union Hardware Company, Torrington, Conn., and Mr. V. E. Miller, President of the Mill-Rose Company, Cleveland, Ohio, who, by the way, is a life member of the National Rifle Association.

All but one of the replies received from manufacturers were in favor of the proposed standards, with certain reservations as to folding or pocket rods. The exception, a very

large maker of cleaning rods, was in favor of having everyone adopt the old 7/32 inch size, for the reason that a large percentage of the .22 caliber rods are made of 3/16 inch (.187) stock, and an 8-32 tap leaves too thin a wall in this size rod. The use of No. 8-32 threads would require the use of slightly larger stock, that is 13-64 (.203). While this would be slightly more expensive to produce, it would result in a stronger, stiffer rod.

Mr. Pardon, of the Union Hardware Company, was in favor of the 8-32 inch size, not only for rifle rods but for shotgun rods and attachments as well, and exhibited samples showing that the No. 8-32 tips would have ample strength for the use suggested.

As a result of the meeting, a draft of a proposed voluntary standard covering cleaning rods and their attachments is being made up under the supervision of Mr. Powell by the Division of Trade Standards of the National Bureau of Standards. It provides that cleaning rods for calibers up to .28 shall be 13/64 inch (.203) in diameter, while rods for calibers above .28 including metal shotgun rods shall be .25 inch in diameter. The end threads for attachments and all joint threads shall be No. 8-32 except that joint threads for wooden shotgun rods shall be at the maker's option. Threads on all brushes, tips and other attachments for all calibers, including those for shotguns, shall be No. 8-32.

If adopted, this would constitute a voluntary standard for the trade, and items produced to conform could be advertised or marked as being according to this standard. Copies of the proposed standard may be obtained, gratis, from the Division of Trade Standards, National Bureau of Standards, Washington 25, D. C.

A question that naturally arises is that of old brushes, cleaners, etc., already on the market or in the hands of users.

The large number of 8-32 brushes now on hand would become standard and would fit the new rods. The 7-32 brushes and attachments can also be used on a rod with 8-32 threads, as they will screw in with a loose fit which will jam tight when the end is reached. Other sizes can be taken care of by adapters which could be sold at a profit for a dime.

As this standard, if adopted, is to be voluntary, those involved in this effort are deeply interested in the reaction of users, sporting goods dealers and the trade in general. You are invited to write in and give us your views. Address your comments to the National Rifle Association, 1600 Rhode Island Avenue, N. W., Washington 6, D. C., attention: Technical Service.

COATING SCRATCHED LENSES

Scratches which are nearly invisible on an uncoated lens may show up after the lens has been coated, as the coating will not cover the scratches. This is proving to be a headache for firms doing custom lens coating work. The customer who sends in a scratched lens may believe it to be in perfect condition, and when it comes back with the scratches showing he naturally blames it on the person doing the coating.

The greatest of care is necessary to prevent scratches from occurring on finely ground optical surfaces. In order to get the proper dispersion and refractive index, some types of optical glass have to be quite soft. Much of the dust floating in the air consists of silica (quartz), which is harder than glass. Thus a carelessly wiped lens is almost sure to be scratched. It is best to keep the wiping of lenses to the absolute minimum. Keep them covered when not in use. When they get dusty, blow the dirt off with a small rubber syringe or remove it with a camel's-hair brush. When wiping becomes necessary, use clean lens tissue or a clean, well-washed, soft cloth, such as an old handkerchief.

If you send a lens to be coated that has been in use for some time do not be surprised if some scratches show up that you did not know were there. And do not let it worry you too much. When using the scope or camera, you will never notice the difference.—J. S. H.

BARREL THREADS

"Please advise if the barrel thread in the Model 98 Mauser action is the same thread used on the barrel of the U. S. Rifle Model '03. Want to rebarrel a 98 Mauser action for the .30-'06 using a Springfield barrel, if possible. If the threads of the action and the barrel are not the same, it would necessitate a new chambering job plus the disadvantage of having a shorter barrel."—K. V. PLUMMER, Santa Rosa, Calif.

Answer: The shank of the Mauser action is 1.10 inches in diameter, with twelve V-threads to the inch. The Springfield is 1.04 inches, with ten square threads to the inch. The Enfield is 1.118 inches, with ten square threads. None of them are interchangeable, as you can see by the above figures. In other words, to put either an Enfield or Springfield barrel on your Mauser you would have to cut off enough of the breech end of the barrel to permit rethreading. This means that you would also have to rechamber the barrel.—A. H. B.

.255 DEAN VELOCITIES

Some years ago H. O. Dean of Getzville, N. Y., developed a high-velocity cartridge based on the .25-20 Repeater cartridge. The Dean cartridge case has much less body slope and a much more abrupt shoulder angle than the .25-20. Our results using two rifles chambered for this cartridge were reported on page 46 of the November, 1942 issue of THE AMERICAN RIFLEMAN.

The cartridge was illustrated and reviewed in the June, 1946 RIFLEMAN, page 17, in the article, "Other Small Game Calibers" by F. C. Ness. Since then Dean writes that he has received many requests for ballistic data. The cartridge, chronographed by P. O. Ackley, appears quite efficient. The loads listed by Dean are as follows: 17.0 grains No. 4227 powder, 2855 f.s.; 15.0 grains No. 2400 powder, 2825 f.s. and 16.0 grains No. 2400 powder, 3015 f.s. velocity. The energy at the muzzle for these loads would be 1080, 1057, and 1205 ft. lbs. Our loading data would indicate that these are extreme maximum loads for most rifles. Bullet weight is not mentioned, but judging by the loads it could be only the 60 grain .25-20 bullet.—A. H. B.

THE ENFIELD ACTION IS STRONG

Mr. Robert J. Marshlow, Buffalo, N. Y., writes to us as follows:

"You have, no doubt, read the article 'Strength of Military Actions,' by O. P. Ackley, in the May, 1946 issue of *Hunting and Fishing* magazine, in which he claims that the Eddystone Enfield M1917 rifle has a very weak action, comparable to the early 'brittle' Springfields.

"I had a used M1917 Enfield ordered through the D. C. M., and hoped that I might get one with a Winchester or a Remington action.

"I received my Enfield last week—an Eddystone No. 819,138 from an Army supply depot in Schenectady, N. Y. The barrel is marked E6-18 and has five-groove, left-hand rifling. The receiver ring has a slightly mottled appearance, but the bolt assembly and trigger guard have a rough blued finish that may be Parkerized. The bolt shows no wear marks at all and may be a new one or a recently reblued one. All parts are stamped 'E.'

"The gun came heavily greased and covered with green adhesive cloth.

"Is this likely to be one with a weak, brittle action? Or is there any chance that the action has been reheat-treated along with the early Springfields?

"I do my own reloading and had hoped to have it remodeled to use with hot handloads, as I was under the impression that the Enfield action was one of the strongest made, before I read of Mr. Ackley's tests.

"Please advise me if you think I can shoot anything more powerful than service loads in it."

Answer: Yes, we read and enjoyed Mr. Ackley's interesting article, but please note his experiments have not been completed and he has not reached his final conclusion.

Eddystone, Remington, and Winchester all made the 1917 receiver and bolt out of the same kind of nickel steel, heat-treated to the same specifications, resulting in a material only moderately hard, but very tough and with excellent shock resistance. Years of experience have shown that these are exceptionally strong actions, and no difference in strength has shown up between the three makes. In fact, any accident in which the receiver of a 1917 has blown up is a great rarity, though I do know of one such case caused by firing the rifle with an obstruction in the barrel just ahead of the bullet seat.

Mr. Ackley himself stated in his article: "The tests are not conclusive because of the lack of numbers of the different kinds of actions."

Mr. Ackley has also written to me regarding these two guns: "Either action would have been perfectly safe with any load that any handloader would use if he had any sense. In other words, either action would stand loads which would regularly blow primers without any danger except from escaping gas."

Please bear in mind that Mr. Ackley deliberately set out to blow up these guns if it were possible. You need not be afraid to use your 1917 action with any load that would be reasonable for any other bolt-action rifle.—J. S. H.

DON'T REHEAT-TREAT

Marvin C. Thompson of the U. S. Navy, stationed in San Diego, Calif., asks the following questions:

"First: Does the Garand M1 rifle use the M1 172 grain bullet or does it use the 152 grain M2 bullet? Can satisfactory results be obtained with both?

"Second: What is considered the best degree of hardness of the receiver of a rifle, and what does this Rockwell number so and so mean in connection with this heat-treatment?

"Third: Where can I have the receiver of my rifle analyzed for degree of hardness and safety and given the hardening process, if necessary?"

Answer: The Garand M1 rifle was designed for 172 grain M1 ammunition and will handle it perfectly. After the gun was designed some 150 grain M2 ammunition was made up at the request of the National Guard Bureau for use on ranges which did not have enough room to accommodate the long-range M1. The reduced recoil proved so popular that the M2 ammunition was later adopted as standard. Fortunately, the Garand will handle it equally well. See the article by Warrant Officer Laurence in this issue.

Second: The Rockwell system grades the hardness by the depth to which a steel ball (scale "B") or a diamond cone (scale "C") will penetrate the material when a given load is applied. The ball scale "B" is used for fairly soft materials. The cone scale "C" is used for harder materials. Carbon steel hardened "glass hard" by heating and plunging into brine reads about 67.5 Rockwell C. Drawn until all the temper is removed it reads about 19 Rockwell C. The higher the Rockwell number, the stronger the steel, also the more brittle. With a given heat-treatment, the Rockwell number on nickel steel is much lower than on carbon steel. The best Rockwell number for a receiver depends on a number of factors, such as the kind of steel used and whether casehardened or not. Around 40 C is a good average.

Third: With modern receiver steels the reheat-treating of receivers is not recommended. In connection with a proposal to reheat-treat the low-numbered receivers, an investigation of this subject was made at Springfield Armory in 1923. Out of forty-eight low-numbered receivers given the best and most careful reheating that could be devised by skilled metallurgists, sixteen, or one third, failed on a high-pressure test. The Board reported officially: "It is the opinion of the Board that means have not yet been determined for making receivers of Springfield Armory manufacture bearing serial numbers under 800,000 and those of Rock Island Arsenal manufacture bearing serial numbers under 285,507, suitable for service use. It is considered that it is impracticable, if not impossible, to reheat-treat these receivers in such a manner as to make them serviceable."—J. S. H.

.303 NONINTERCHANGEABILITY

"Can the .303 cartridge for the Canadian Ross be used safely in the .303 Savage?"—WILBUR R. SEABROOK, Erie, Pa.

Answer: The .303 British case to which you refer is larger in diameter at the base than the .303 Savage. It is also a full one-fourth inch longer. Therefore, the two cartridges are positively not interchangeable and the British cartridge cannot be used in a rifle chambered for the Savage cartridge. The .303 British is more nearly comparable to our .30-40 Krag as far as shape and length are concerned.—A. H. B.

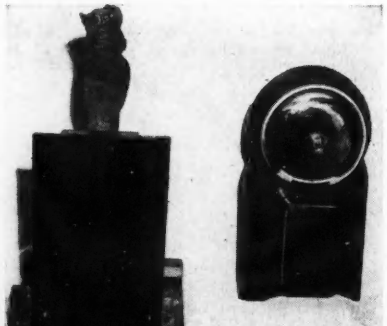
NOVELTY TARGET

A short time ago Mr. L. B. Rush, of the Hangman Creek Rifle Club, Spokane, Washington, submitted photographs and a description of a novelty electric vibrating squirrel target which has been successfully used by his club for ten years.

Quite a few of the shooters in Mr. Rush's community are of the school which feels that the rifle as well as the wheelbarrow developed because man was made to stand on his hind legs, and this target was devised to foster and stimulate off-hand shooting. It creates plenty of interest for both spectators and shooters.

The Club has held quite a few tournaments at which this novelty target has been used. They have both team and individual events which are run on the shoot, miss, and out basis. First and second prizes are awarded. The shoot is characterized by a large number of events. There are usually ten to fifteen competitors in each event. Prizes, such as sugar, coffee, turkeys, cakes, etc., are offered, so that the shoot is often a fair source of income for the club.

The following description plus the accompanying photograph will furnish all the data needed to construct the target. It consists of the profile of a squirrel, about 2½ inches wide and 6½ inches long, which is cut from the sidewall of a ten ply truck tire. The squirrel is bolted to a piece of heavy clockspring and when hit vibrates between two contacts, thus ringing a loud bell or gong at the firing line.



The "squirrel" target shown at left will establish electrical contact when hit, ring bell installed at the firing point.

The device is quite sensitive, and any shot hitting the squirrel will cause the bell to ring. There is no need for a bullet gauge; arguments and post-mortems are eliminated. It is not necessary to go out to bring in the targets or to put up fresh ones.

The vibrating target can be used both outdoors or indoors since it is quite portable. It operates on a six-volt car battery and uses rubber covered connecting wires which can be reeled up very quickly. Mr. Rush states that outdoors they shoot a distance of 60 yards and indoors they shoot at 50 feet. Though he didn't say, I imagine they use a smaller squirrel, say 2½ inches by 5 inches for indoor shooting.

There is very little replacement necessary, and they usually get from 400 to 500 shots on each squirrel. The contact mechanism on the target is protected by a piece of iron plate ¼ inch x 5 inches x 12 inches. Another plate, ¼ inch x 12 inches x 14 inches is set up in front of the target to prevent it from registering hits under the impact of a low shot. —J. L. M.

TRADE DOPE

Fred Huntington, the "R.C.B.S." bullet swage maker, wants his customers to know that he is at least two weeks behind in his correspondence. Orders on hand for his swages will take about two months to fill. He tells us he is doing his best to fill these orders.

☆ ☆ ☆

Muzzle Loading Shotguns can be overhauled, rebored, and choked to any "reasonable pattern" through a new service offered by V. M. Starr of Eden, South Dakota. Starr claims that his barrel jobs will produce patterns equal to modern guns with equivalent loads.

☆ ☆ ☆

L. H. Brown, 303 Chestnut Street, Dowagiac, Michigan, formerly with the Niedner Rifle Corporation, announces that he is now completely on his own and is chambering for most of the popular calibers. He is continuing to build Bull Pup varmint rifles and complete custom sporters built on the customer's action.

☆ ☆ ☆

Harry Moneymaker of Omaha, Nebraska, has taken over John Crowe's business of manufacture and installation of ventilated ribs on shotguns. Mr. Crowe has announced this change in a letter to us in which he also states that he has known Mr. Moneymaker for about fifteen years and highly recommends him to the shooters.

☆ ☆ ☆

Bill Kirsh of the American Gun Works, 1284 Sunset Blvd., Los Angeles, Calif., is now specializing in the installation of all European telescopes on American Rifles, without modifying the scope in any way.

☆ ☆ ☆

F. R. Krause, gunsmith, 305 East Iron Ave., Albuquerque, New Mexico, is providing a service which should be of interest to possessors of foreign military and sporting rifles. In general, this service consists of rechambering rifles, including Japanese military weapons, so that use can be made of cartridge cases available in this country, to handload for them. This makes possible the wide use of .30-'06 and .30-40 Krag cases.

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics or the attempt to circumvent these general requirements, when brought to our attention, will result in refusal of further advertising and might result in disbarment from the NRA in the case of members.

2. All Orders Subject to These Conditions: WE reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

3. Who May Advertise: The ARMS CHEST is an open market trading post. Any individual or firm whose advertisement and methods of doing business meet our requirements may advertise their goods or services.

4. Rates: All advertisements must be accompanied by remittance. The rate is 15 cents per word including name and address—minimum charge $2.00.

5. Definite Prices Must Be Stated: A specific price must be stated on all items offered in FOR SALE and SELL or TRADE ads—except that the phrase "write for catalog" may be used when listing merchandise in quantities.

6. Blind Ads Not Acceptable: Box number or blind ads will not be accepted. Give your complete name and address, to insure prompt delivery of all mail or telegraph replies.

7. Firearms for Sale or Trade Must Be Defined: The *condition* of every gun (including essential parts) advertised for sale or trade, *must* be specified according to *NRA standards*, as follows: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition, implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting. POOR—meaning marred appearance and pitted or badly worn bore.

8. Non-Specific Phrases Barred: Phrases such as "highest" or "top prices paid," as well as any other so-called "auction-type" phrases are not acceptable. The terms "fair price paid" or "state price wanted" may be used.

9. "Outlawed" Firearms Defined: The sale of certain firearms is outlawed by Federal law unless handled by a Federally licensed dealer. These include machine or submachine guns; sawed-off rifles and shotguns with barrels of less than 18" and Mauser and Luger auto pistols *with holster stocks.*

10. Requesting Privilege of Examination: We *insist* that purchasers desirous of examining merchandise before acceptance request shipment by express C. O. D. with examination privilege. This procedure permits the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters likewise are counted as one word (example: W. H. Smith; H. B., meaning heavy barrel; HP., meaning highpower). Hyphenated words are counted as two words (examples: 20-gauge, pearl-handled, no-slip).

12. Responsibility for Illegible Copy: Type or print advertisements plainly, as we can not be responsible for errors due to illegible writing.

13. Closing Date: All advertisements must be *received* by not later than the 1st of the month preceding date of issue. (Example: the 1st of August for the September issue. Ads *received* after the 1st of August, *and not later than the 1st of September* will be inserted in the October issue.)

FOR SALE

OUR LIST OF MODERN ARMS WILL BE SENT on receipt of three cent stamp. Kimball Arms Company, Woburn, Mass. tf

DO YOU KNOW OF ANY PURCHASEABLE antique firearms collections? Generous REWARD for productive information. James Serven, Santa Ana, Calif. tf

WE BUY, SELL, TRADE SHOTGUNS, RIFLES, revolvers, ammunition outboard motors. Scaramuzzo, 601 So. Halsted, Chicago 7. 3-47

AMMUNITION—.45-70-500 SMOKELESS, $1.74 per box. $8.50 per hundred. G. I. Rubber slipon type recoil pads, 90¢ each. Dept. R. L. L. Bolin, 9 Grand St., South Amboy, New Jersey. tf

20 PAGE CATALOG, LISTING ANTIQUE FIREarms, edged weapons, cartridges, parts, books and collectors items for 15¢. H. A. Brand, 1008 Ingalls Bldg., Cincinnati 2, Ohio. 7-47

NEW GUNS—BROWNING AUTOMATICS 12, 16 and 20, $89.00. Marlin 39A $46.00. 81, D. L. $22.50. Three piece light metal shotgun rod $1.50. Hershey's, Orrville, Ohio. 8-46

THE REVOLVER TIMING RECORD—A 10-INCH RCA-Victor phonograph record. Practice timed and rapid fire anywhere. BY YOURSELF. Nothing to watch—just LISTEN. For "Dry" shooting, basement and outdoor ranges. One side 10 second timing, other side 20 second timing. Plays on any phonograph, $1.50 postpaid. The Original Sight Exchange, Box J, Paoli, Penna. 2-47

NOISE STOPPING SOFT WAXEN SLEEP-RITE earstoppers make better shooting, better sleeping, set 10¢. Free literature. Raymond Dow, 2922 164th St., Flushing 6, N. Y. tf

G. C. SCHOYEN CUSTOM BUILT TARGET rifle, excellent. Circassian Schuetzen stock, double set, Ballard action. 28", 32-40 with false muzzle. 32", 38-55 extra barrel. Palm rest. A. W. Peterson telescope, cased, moulds, loading tools, ammunition, $350.00. J. L. Armstrong, 876 South Corona, Denver, Colorado.

7MM. .300 C.C.C. MAGNUM, ENFIELD ACTION, bolt altered to cock on opening, single-stage trigger, floor plate and trigger guard straightened, engined turned bolt, K4 scope, Redfield Junior mount, 50 .300 Magnum empties, dies, complete custom job by Hollywood Gun Shop—rifle is new—never fired, $265.00. The Gun Rack, 441 El Camino Real, Menlo Park, California.

EXCELLENT M70-220 SWIFT H. B. MARKSMAN stock, 10X Unertl scope coated lens Litschert D. H. mounts, trigger shoe, sling Pacific dies 40 rounds, 200 primers #120, 200 bullets, 100 empties $250.00. Excellent Mauser-Buhmiller 22-250, H. B. custom stock Unertl 10X scope, sling, Fecker micrometer mounts, Pacific dies 50 loaded, 200 primers, 200 bullets, $225.00. F. R. Petro, 1528 Vermont Aveaue, Connersville, Indiana.

CASWELL TARGET CARRIERS GIVE THE shooter every possible point because they hold the target steady and require no exertion to operate. Fully equipped with speedy ball-bearing pulley wheels and target holders for every type of indoor paper rifle or pistol targets. Government priority not required. Caswell Target Carriers, Anoka, Minnesota. tf

USE THE NEW GAS PROOF GUN WAD FOR Mild recoil close even pattern unusually long range, $4.00 per M. Packed in 1000 lots 500-¾", 250-⅛C, 250 thin C. send remittance. E. G. Snyder, Rt. #2, Reading, Penna. tf

AMMUNITION—NEW AND USED SHOTGUNS, rifles, handarms, list 10¢. Dept. N. R. Rudolph's, Atchison, Kansas. 12-46

ALWAYS A GOOD STOCK OF COLLECTORS arms and visitors always welcome. House of Guns, 34 Alpine place, Arlington, N. J. 2-47

30-06 F.A. ARSENAL, 1935 CARTRIDGES, FULL patch, $7.50 per 100. 30-06 Winchester, pointed, full patch, staynless, non-mercuric, cartridges, $10.00 per 100. .38 Special factory load, 158 grain, $4.00 per 100. Wadcutters, $3.50 per 100. 351 Remington soft point, S.L. cartridges, $7.50 per 100. 25-35 rifle cartridges, Kleanbore, soft point, $7.50 per 100. .38 cal. Rim fire revolver cartridges $2.00 per 100. 45-70 Blank cartridges, Winchester make, center fire, $4.00 per 100. 270 Winchester soft point cartridges, Kleanbore, by Remington 150 grain factory loads, $12.50 per 100. .35 Remington soft point, Kleanbore cartridges, $10.00 per 100. Forward money with order. No C.O.D. shipments. Public Sport Shops, Dept. R-75, 13 South 16th Street, Philadelphia, Penna.

NEW CARTRIDGE LIST #10 FOR THE COLlector. It contains many new and rare items. Send 10¢ coin or stamps. Carl Metzger, 2305 Canton St., Dallas 1, Texas.

COLLECTION OF SCHUETZEN RIFLES, chiefly European, including many of the finer examples of the Gun-makers' art, list now ready. 500 other modern and antique arms in stock. Send stamps for lists. G. Crozier, Homer, N. Y. 8-46

1849-1851-1860 CASED COLT REVOLVERS; 1855 Colt revolving rifles and shotguns; list 10¢ in stamps. E. C. Ward, 604 No. Verdugo Road, Glendale 6, Calif. 8-46

REMINGTON MODEL 14, VERY GOOD $55.00. Want Walther H.P. any caliber any condition. Member. John R. Martin, 404 Fernhill St., Pittsburgh 26, Penna.

RELOADING LUBRICANTS: IPCO COLLOIDAL graphite ribbon wads $1.00 box; IPCO bullet lubricant $1.00 box; Special discount to dealers. Industrial Products Co. W. W. Perkins, Prop. Box 14, Wakefield, Mass. tf

JOHN SHULER OVER AND UNDER DEER rifle 45 caliber both rifled set trigger weight about 11-lbs., good condition $35.00, another by Horder Rattor similar fine gun $40.00. One barrel smooth bore fine both percussion French 20 gauge single percussion shotgun long barrel fine gun $30.00. J. G. Dillin, Media, Penna.

FOR SALE: ???? GUNS ??? FINEST SELECTION —Trap, field, rifles and pistols new Springfield 30-06 Standard $125.00, Deluxe $150.00. 270, 220 Swift 257 Roberts standard $175.00. Deluxe $200.00. Frank Pugliese, 1757 South Broad St., Trenton, 10, N. J.

WINCHESTER 348 GOOD SHAPE OUT, PERFECT in, $75.00. Al Wilson Company, 1539 Folsom Street, San Francisco, Calif.

EMPTY SHOTGUN SHELLS, $3.50 PER THOUsand. Large gun list, 10¢. Geo Brullesauer, 3957A Castleman, St. Louis 10, Missouri. 12-46

INVENTORS: SOUND, PRACTICAL FISHING, hunting or other sports inventions, patented or unpatented, are urgently needed by sporting-goods manufacturers who have requested our assistance in locating marketable new products. Complete information free. Institute of American Inventors, Dept. 131, 1926 Eye St., N. W., Washington 6, D. C. tf

SEPTEMBER 1st

is *final* closing date for October Classified

All "Arms Chest" ads for the October issue must reach us not later than September 1st.

This advance in closing date is being made with sincere regret, and only after the most careful consideration. Valiant efforts have been made to expedite production of the RIFLEMAN, but with circulation now in excess of 140,000 (and still climbing) the additional time required for printing and mailing makes it absolutely necessary that we go to press much earlier.

It is our earnest desire to get all copies of every issue to each individual subscriber positively not later than the 1st day of the month of publication. This advance in closing date for classified ads will help a great deal. We ask your indulgence—and co-operation.

NEW CATALOG No. 12 NOW READY!

(IT'S FREE)

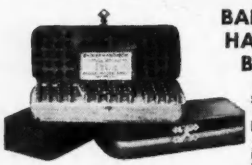
NO WAITING FOR

Weaver K 2.5 Coated Lens..... $38.50
Weaver K 4 Coated Lens..... 44.00
(dot reticule $8.00 extra)
Lyman Alaskan, Coated Lens..... 50.00
(dot reticule $12.50 extra)
Redfield Jr. Mounts, 330 size..... 10.75
Alaskan size, $12.75; Weaver K, $14.75; Stith Mounts, $12.00, $15.00 & $17.50.

POINTER PLASTIC STOCKS

Shaped to fit hand, thumb rest, oil and acid resisting. Made for most popular Colt, S & W and Hi-Standard models. Walnut and Ebony or Ivory (50¢ extra). Woodsman & Hi-Standard—R or L $5.50 Colt PP; O.M.; OP; 1917 Army Camp Perry $5.00. S & W Mag.; "K"; M & P; Outdoorsman $5.00.

BADGER HANDY BOX



Made of select butternut, holds 50 cartridges in rows of 5s for easy count plus space for a full box in center. Dope sheet in cover gives elevations. Price, postpaid $1.25

BEST OF ALL—*NO WAITING*

for your order to be shipped or an answer to your letter! Of course, we don't have everything you want yet, but we'll send what we have and tell you when to expect the rest BY RETURN MAIL!

REMODEL THAT ENFIELD, MAUSER, SPRINGFIELD, ETC.

Lyman 48 with disc $11.50; Redfield 70 $8.50; Redfield 102 $5.75. Limited quantity Redfield Ramps with hood $8.50; Plain Ramp (fits bbl, attached with one 6 x 48 screw) $2.50; Gold or Ivory front sight to match $1.25 (Sheard $1.75). Select swivels, slings, butt plates etc., from our catalog.

MORE THAN A THOUSAND METALLIC SIGHTS IN STOCK!

MITCHELL PRECISION SHOOTING GLASSES

Precision ground lenses, gold filled frames, plastic brow rest feature this excellent goggle. The color is the well-known green shade so popular with target shooters and general outdoor wear. MONEY BACK IF YOU AREN'T SATISFIED. Postpaid, with case, $11.50.

SPOTTING SCOPES

ARGUS Super Grade 55mm Prismatic $74.50 (supply limited).

WHITE LINE and PACHMAYR Recoil Pads

(Large or small) $3.00

"NO SLIP" Rubber Rifle Butt Plate, three sizes 1.75

Prices subject to change without notice. Orders filled at current prevailing prices of manufacturer.

Send for FREE catalog and current "Headliner"

BADGER SHOOTER'S SUPPLY

Owen *"Lew" Bulgrin* **Wisconsin**

"SURE WE TRADE"

REBLUING and REFINISHING

REBLUING: Handguns, $7.00; rifles, $8.00 & $10.00; shotguns, $10.00 (no doubles or singles with soldered lugs).

REFINISHING: Rifles and shotguns, $6.00; with rerun of checkering, $10.00.

Fast service; guns returned in one week after receipt. Your guns insured against fire and burglary while in my shop. Houghton system of bluing used.

M. O. DODGE 717 Fremont Street Las Vegas, Nevada

SAM DICK

BOND & PADDOCK

222 Second Street, S. W.

NEW PHILADELPHIA, OHIO

SPORTSMAN'S SUPPLIES

Unertl Scopes Weaver Scopes

King-Pike Mounts

INVENTORS

HAVE PATENT PROTECTION first. Remember the details of your invention do not have to be 100% perfect before you can obtain patent. Patent laws favor the inventor who acts promptly. First step is to have us conduct search of the prior U. S. Patents and render a report as to your invention's patentability. Send at once for further particulars on how to protect your invention. Request does not obligate you.

McMORROW, BERMAN & DAVIDSON
Registered Patent Attorneys
251-R Victor Building, Washington 1, D. C.

WANTED FOR CASH OR TRADE

Target and hunting rifles and handguns. Have K2.5, K4, new G88 & Alaskan in stock. Stith & Redfield mounts. Argus Super Spotters. Expert scope mounting & targeting service.

THE PENNA. GUN TRADER
"VIC" BRENEMAN Hershey, Penna.

REVOLVERS, MINERALS, STAMPS, COINS, glass, Indian relics, catalog 5¢. Cowboy Lemly, Las Cruces, New Mexico. tf

ILLUSTRATED 172 PAGE CATALOG OF ANtique firearms and edged weapons 50¢. Robert Abels, 860 Lexington Ave., New York 21, N. Y. 1-47

BUY BLACK POWDER IN 25 POUND CANS—Fresh stock and up to U. S. specifications. In FFG only. Shipped from magazine in Northern Ohio, $9.50. Groups should join to use this large container, you pay freight on 100 pounds in any instance, so buy big. E. M. Farris, 210 Chillicothe St., Portsmouth, Ohio. tf

ORTGIE FIRING PINS $1.25, SPRINGS AND guide pins 35¢ each, 25 or 32 caliber plastic revolver handles, imitation ivory, pearl, etc. Sim Sales Co. 3415 No. Hoyne Ave., Chicago 18, Ill. 8-46

CASES:—FOREIGN, DOMESTIC, STANDARD, wildcat, 22-250, 228 Ackley, 8mm. & 7mm. rimed, rimless, 256, 257. Many other. Write for details. E. L. Jewett, 511 No. Workman, San Fernando, Calif. 8-46

WINCHESTER #54 NATIONAL MATCH GRADE 30-06 heavy barrel, Lyman Tarketspot scope, very good $200.00. No C.O.D.. Member. F. W. Dugan, 634 South Gramercy Place, Los Angeles 5, Calif.

RIFLE POWDER #3031, 4198, 4806, 4740 REpacked, $1.40 per lb. B. E. Hodgdon, Merriam, Kansas.

WINCHESTER 69, FACTORY GREASE, 500 rounds .22 L.R. perfect $35.00; Colts Ace, recondition at factory, 500 rounds .22 L.R. $75.00. Ratliff, Hillyard, Washington.

NEW LIST MODERN AND OBSOLETE CARtridges, stamp please. Kimball Arms Company, Woburn, Mass. tf

MODEL 70, 270 EXCELLENT, FIRED 150 rounds $98.00. Want 2R, 25-20 single shot cases. Sheldon Kressler, Bloomsburg, Penna.

.38 SPECIAL, SMITH & WESSON, EXCELLENT, Army type, 500 rounds ammunition, new holster, first $50.00 M.O. 7x50 binoculars, Navy type, leather case, perfect, first $97.00 M.O. K. Williams, 608 No. Pine, Ellensburg, Washington.

FOUR NEW MAUSER ACTIONS, 2 BLUED AND complete, one in white complete $30.00 each; one less trigger guard and magazine, in white $20.00; one pair 6.5x57mm. R over and under never fired J. P. Sauer & Sohn rifle barrels only, $40.00; One 7mm. half octagon Mauser barrel only, Krupp steel made by Herm Schneider, full length rib in white $25.00. None of the above is war junk but is of real prewar German quality. Paul E. Thaxton, 1320 5th Ave., Laurel, Mississippi.

ELK-DEER HUNTERS: THIS YEAR SHOOT cow, bull, doe or buck. Few reservations left. October 12-November 24. Leave family at lodge while you're packed into hunting camp. $10.00 day includes everything. Troy Carr, Sun Valley Ranch, Grand Lake, Colorado. 9-46

PERFECT CUSTOM BUILT 220 SUPER SWIFT, similar to Weatherby's Rocket, Mauser 98 action, bolt altered, heavy weight 26" barrel by Paul Jaeger, LeFever stock checkered and oil finished, Weaver K2.5 scope, Lee Dot and Edwards 6X attachment, Jaeger quick detachable mount, 3 boxes ammunition, resizing die, price $215.00. R. N. Raycroft, Moira, N. Y.

CUSTOM RIFLE, 6.5 X 57MM, FULL STOCK, checkered, engraved, Goerz-Berlin scope, 3 post, individual focus and 4-6-7½ powers, snap-on mount, a museum piece, 180 rounds factory 100 gr., 30-.67 gr., perfect, $450.00; Walther Olympic, .22 LR, two barrel-weights, perfect, $110.00; Zeiss, Zielsechs, 2" x 12½", 3 post, lugs on scope, no mount, internal elevation, key windage, excellent, $50.00. German Army sniper scope, 4X, 3 post, internal w/e, 6" x ¾", no mounts v.g. $30.00; Voightlander sniper, 4½-7½ power, 1¾" x 13¼", optics excellent, blue worn, internal elevation, no mount, $35.00; Winchester 74 rifle, .22LR, peep, perfect, $28.00; Flag, captured Nazi, 7x5 ft., v.g. $6.00; 19 Hornet, Weaver 29S, post, low T, 295 rounds factory, excellent, $65.00; Remington 250-3000, M20, Weaver 330 post, low T, excellent, $75.00; PP Walther, 7.65mm. perfect, $50.00; Sauer, 7.65mm. perfect, $50.00; Steyr, Mauser auto, 9mm. clip, v.g. $40.00; Luger, M1920 auto, 4", excellent, $65.00; Albree Monomount, 29S, excellent, $6.00; Field glass EE, 6x30mm. case, good, $25.00; German Rodenstock NCO glass, optics good paint and case poor, $5.00; Stop Watch, Swiss excellent $15.00, German v.g. $12.00; Slalom good, $7.00; Eastman Kodak, series III-IA, case, excellent, $25.00; Schick Electric shavers "S" model, excellent, $8.00, v.g. $6.00, good (poor cord) $5.00; Army riding boots, tan, custom, 8C x 14½" calf, 16" high, full wood trees, dress spurs, excellent plus, by Dehner, $45.00. Same complete by Cross, $35.00; P.38 holsters, new, $3.50. Swap 500 LR Kleanbore for 750-.22 shorts. Money orders, postage free, express FOB. H. E. Dager, Room 506 Old PO Bldg., Atlanta 3, Georgia.

GRIMES RIFLE OR SHOTGUN SLINGS TOP grain russet cowhide, adjustable to any shotgun or rifle, furnished in ¾" - ⅞" - 1" - 1¼" widths, $1.50 each. Sportsmen's Specials—All items brand new. Rifle and shotgun sectional metal cleaning rods precision quality all calibers and gauges, $1.50 each, Brushes 25¢ extra. Hoppes gun cleaning pack, consists of oil, nitro solvent, gun grease and cleaning patches, $1.25. Recoil boot, prewar rubber, U. S. Army slipon type, for shotgun or rifle, $1.00 each. Duck and Crow calls, treated against tone change, $1.50 each. Gent's one inch hand carved all leather western belt, tan, all sizes, $1.00 each. Genuine G.I. heavy canvas leggings with brass eyelets, large, medium and small sizes, $1.50 per pair. Rifle sling swivels, quick detachable, 1¼" only, $1.00 per pair. Holster for Luger automatic pistol with 8" barrel saddle leather brand new $5.00 each. Tan leather belt holsters for revolver or automatic pistol, any size, with flap $2.00, without flap $1.50. Shoulder holsters, quick draw $3.50 each. Give barrel length of gun for all holsters. Hunter's compass, all metal, open face watch type, mfg. by U.S. Gauge Co., $1.50 each. All items are postpaid. Sportsmen's Supplies, 250 W. Bayberry Lane, Upper Darby, Penna.

JAP "BABY" NAMBU, 7MM. ALMOST EXCELlent, very rare, 300 shells, $165.00. Jap 1925 pistol, 8mm. new, holster, extra magazine, 10 shells, $80.00. Jap Army revolver, 9mm. excellent in, good out, 50 cartridges, holster, $65.00. Italian Glisenti automatic pistol, good $60.00. Weaver 29S, B mounts, perfect $17.00. Long Samurai sword, $40.00. French MAS rifle, bayonet, excellent out, good in, $45.00. K98 Mauser, action perfect, finish good, $40.00. Jap 6.5 carbine, new barrel and action, wood good, bayonet, few shells, $50.00. Jap 7.7 rifle, outside excellent, good in, bayonet, few shells, $40.00. Mauser pistol, takes 9mm. Luger shells, good, holster, 50 shells, $50.00. Benjamin .177 Air pistol, mechanically perfect, holster, 1000 pellets, $10.00. Wanted—Following automatic pistols: French Le-Francais, 9mm. Finnish "Lahti." Also Norwegian, Swedish and South American. Gordon Persons, Box 97, Montgomery, Alabama.

600 .45 REVOLVER CLIPS, 10¢ PAIR. JOE Fries, 1012 No. Mesa, Carlsbad, New Mexico.

COLT OFFICERS .38 T MODEL 6", HOLSTER, set reloading tools, excellent, $70.00. Riley C. Sanford, Big Indian, N. Y.

MAUSER 98, 30-06 SPORTER CHEEKPIECE stock, 70m, R.S. ramp front, excellent in & out, $115.00. Springfield 30-06 Sporter, cheekpiece stock, 48 R.S. rebarrelled, reblued, $105.00. Springfield 30-06 Sporter, 70S, R.S. rebarrelled, reblued, cheekpiece stock, $105.00. All have perfect headspace & bores and have slings, money order. J. D. MacAnn, 37 Gregory St, Rochester, N. Y.

PACIFIC DIES, .257, 250-3000, 30-30, HORNET, $15.00 per set. Ratliff, Hillyard, Washington. 9-46

HSW 32-40, VERNIER, SPIRIT LEVEL, FACtory custom crotch walnut, checkered, PG, cheekpiece, most beautiful job, almost new condition, except throat erosion $100.00. Dan Lefever 12-28, collectors item only, beautiful Damascus, line engraving, good plus, $45.00. Walther PPK .32, excellent, $40.00. M94 32-40, v.g. $40.00. John Baker, Loudon, N. H.

REMINGTON, MODEL 31, 16 GAUGE WITH Poly Choke, excellent to perfect, $95.00. R. O. Rogers, Baxley, Georgia.

JAP NAMBU, EXCELLENT, 200 ROUNDS, HOLster, two magazines $70.00. Jap 6.5, 60 rounds, v.g. $30.00. R. J. Koons, 155 Prospect Avenue, Staten Island 1, N. Y.

FOR SALE—LARGE COLLECTION OF AMERIcan and European Antique Arms, send 25 cents in coin for our 13th edition catalog. We buy whole collections or single pieces. Fair prices paid. Kimball Arms Co., Woburn, Mass. tf

ASIAC BUFFALO HORN TIPS TWO FOR $3.00. Mannlicher type two for $1.00. India stag tynes for gun racks or knife handles $5.50 dozen. R. Vail, Warwick, N. Y. 10-46

1" X 1" TARGET PASTERS, 2 ROLLS 35¢, ⅝" X ⅜" target pasters, 2 rolls 25¢, black or white. In dozen lots postage free. Leo Babchin, Dealer in Police Supplies. P.O. Box 215, West New York, N. J. 9-46

PIRLET BADIN HIGHEST GRADE FRENCH custom made 12-30 weight 6½ lbs. 14½ x 1½ x 2¾ straight Circassian stock Boss single trigger ejectors Purdey side clips fine engraving #2 of a pair, perfect condition, perfect balance, cost $550.00, price $295.00. H. J. Ferry, Longmeadow, Mass.

SAUER 7.65 2 CLIPS, 2 HOLSTERS, EXCELlent $45.00. Sears Wollensak rifle scope cowhide case, excellent $14.00. Collectors: Remington Smoot excellent $14.00. Colt 1849 fair $17.00. Stevens tip-up .22 fair $10.00. S&W 1855 good $12.00. Blue jacket good $6.00. Tycoon poor $2.00. Stevens rifle tip-up .25 caliber cartridges, fair $15.00. Money orders please. Arthur Fortin, 34 Camden Street, No. Andover, Mass.

A NEW STANDARD PLAN
of Converting . . .
ENFIELDS TO SPORTERS
is offered
N.R.A. MEMBERS

Because of the straight line production features of our Standardized Plan we are able to offer—

- Conversion of your Enfield military rifle into a fine .30-'06 Sporter at reasonable cost.
- Your choice of 30 or 60 day delivery, based on option and terms you choose.

THIS IS WHAT WE DO . . .

1. Record serial number to insure return of your own rifle.
2. Grind off rear sight ears to a contour that will exactly fit Redfield Model 70 receiver sight.
3. Cut off barrel to 24 inches and crown the muzzle.
4. Fit and install Redfield ramp front sight.
5. Straighten trigger guard, alter magazine.
6. Polish and blue barrel, receiver and trigger guard.
7. Polish bolt to high finish.
8. Check head space.
9. Furnish and install new sporter stock with pistol grip.
10. Install checkered steel butt plate and sling swivels.
11. Test fire and sight in rifle at 50 yards. Target with gun.
12. Securely pack and return rifle by express c.o.d. for balance, if any, plus shipping charges.

OUR GUARANTEE——We guarantee unconditionally the quality and workmanship of every Enfield Rifle we convert.

PARKER-WHELEN CO., INC.
GUN CONVERSION DIVISION
827 14th ST. N. W. WASHINGTON 5, D. C.

CHECK OPTION

1. ☐ $75

Includes standard conversion *plus* Redfield #70 Receiver Sight, furnished and installed.

2. ☐ $120

Includes standard conversion *plus* Weaver K2.5 scope (coated lens) and Redfield Junior mount, furnished and installed.

CHECK TERMS

☐ All cash with order; delivery in 30 days.

☐ ½ cash with order; balance on delivery in 30 days.

☐ ⅓ cash with order; ⅓ in 30 days; ⅓ on delivery in 60 days.

GENTLEMEN:

I am today shipping you my Enfield rifle Serial No. _____, via *prepaid* express.

Please convert it to a STANDARD .30-'06 Sporter, as per the option and terms I have checked.

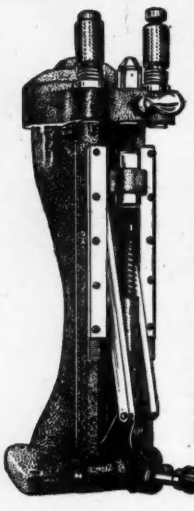
My remittance with this order is $_____.

NAME _____

ADDRESS _____

CITY _____ STATE _____

Two UNIVERSAL Reloading Tools



This superior tool is built to hand load any standard, center-fire, metallic, pistol or rifle cartridge with ease and accuracy. Its turret head, holding multiple dies, speeds up the loading process, enabling you to load more cartridges per hour. We are manufacturing the UNIVERSAL tool in quantity. Its strength, simplicity and precision will satisfy the most discriminating shooter. We can now supply dies for practically all of the standard calibers of pistol and rifle ammunition, including dies for C.C.C. chambered cases. This tool will also handle the fine Pacific dies. You can increase your reloading speed and improve your shooting accuracy with our UNIVERSAL reloading tool.

Both models of the UNIVERSAL tool are identical in all parts except for difference in the turret heads. Model A, illustrated at Left, holds 3 dies in its indexed rotating head—sufficient to reload any single caliber cartridge.

At Left: Model B Tool with 12 Dies.

The Model B, Universal Reloading Tool, illustrated at Right, answers the need for the advanced shooter who owns guns of several calibers and wishes to keep his equipment set up and handy for immediate use. The indexed rotating head holds 12 dies, sufficient to reload 4 or more sizes of cartridge. At most, all that is necessary to change on the tool when switching from reloading of one caliber to another, might be the primer rod, the shell holder and the setting on the powder measure. All other dies remain permanently adjusted in the rotating, indexed, turret head. The UNIVERSAL Reloading Tool has been on the market for more than 10 years and has been used with satisfaction in all parts of the world. These tools are covered by patent and are warranted to satisfy under a money-back guaranty.

C.C.C. Controlled Combustion Chambrage

We are the gunsmiths exclusively licensed in the U.S.A. to rechamber rifles under the C.C.C. patents. This re-chambering incorporates the only true venturi curve in shoulder slope. If you have a quality firearm and wish to increase its present velocity and energy, we can do this for you with safety. We have proved that C.C.C. guns burn powder more efficiently. This greater combustion control generally increases the rifle's accuracy. We operate one of the largest and finest gunsmith machine shops in the country. We can furnish any reference desired. Send us your guns for renewing, rechambering or —write for information and prices.

Multi-Caliber Bullet Puller

Fits UNIVERSAL or PACIFIC tool

Fasig bullet pullers are made in 2 sizes. One size handles bullets from .224 to .375 incl., (collets $1.50 ea.) —other size, bullets from .375 to .45, (collets $2.00 ea.). Collets made of tool steel, other parts hardened steel. Order Deluxe Outfit—2 sizes of pullers and 8 graduated collets. Fully Guaranteed. Discount to Dealers.

COLLETS FOR .22 .25 6.5 mm. .270 7mm. .30 8mm. 9mm. .375 .44 .45

HOLLYWOOD GUN SHOP

Headquarters for Fine Sporting Rifles

6032 Hollywood Blvd. **Hollywood 28, California, U. S. A.**

SKYLITE SIGHTS

formerly the
PARKER SKYLITE SIGHT
now available from
"Little Joe Dot"
622 West Second St. Medford, Oregon
Descriptive folder on request

A SLICKER FOR ALL PETS

DOGS, CATS, RABBITS **$1** ppd.

A flexible brush, spring steel bristles penetrate coat of a long- or short-haired dog. The rows of teeth are staggered so that when drawn over, the dead hair, dirt, and parasites are removed. Used a minute a day keeps vermin away. Sanitary non-rust metal back 4¼" x 2". Ebonized wood handle. Can be used as a Combination Brush and Comb—$1 ppd.

WARNER PRODUCTS CO., Dept. R, Baldwinsville, N. Y.

Scope Service—Center Dots

Rifle scopes, spotting scopes, binoculars, etc. Custom scope work and alterations. Repairing, cleaning, adjusting. Rebluing and refinishing in baked enamel. Dual crosslines and reticules. Hard coating by Optical Coating Labs.

ROBERT S. THOMAS
P. O. Box 81 Silver Spring, Maryland

FLINT and PERCUSSION Foreign Guns

of Superb Quality are my specialty. Describe and price those "liberated" beauties or rarities.

MILLER BEDFORD New London, Ohio

"One of the largest dealers of World's Finest Guns"

JAP RIFLE .30 CALIBER V.G. $18.00. Winchester M74 excellent 500 shorts $40.00, Winchester M92 .32-20 fair, action good $16.00, .41 caliber Italian rifle excellent 125 rounds $24.00. Ray Augspurger, Winchester, Indiana.

10 GAUGE, NEW PRIMED EMPTY SHELL cases, 2-9/16th", $2.50 per 100. #57 Remington shotgun shell primers, $5.00 per 1000. #11 percussion caps, Remington Shur Fire, 1945 manufactured for small nippled percussion revolvers, rifles and shotguns, $2.50 per 1000. Rifle slings, brand new, all leather, Whelen type, 3 sizes, ¾", $1.50; 1", $1.65; 1¼", $1.75. Webb rifle slings, used, U. S. Army good condition, 49¢ each. Hunters compass, all metal, watch type, jewelled $2.50 each. Engineers all metal Army type hand-sighting levels, $1.50 each. Cleaning rods, all metal, 3 piece, calibers .22 to .27 and .30 to .50, special, $1.25 each, for rifle Brand new folding valise knapsacks made of heavy olive green duck, heavily bound and reinforced, repellent to fire or water. Inside 3 large snap fastened pockets, heavy webbed straps, hand and shoulder handles, size opened 22" x 54", closed 22" rolled. Useful to Hunters, Boy Scouts, Hikers and for all traveling use. A $7.50 value, special $2.25 postpaid. Forward money with order. No C.O.D. shipments. Public Sport Shops, Dept. R75, 13 South 16th Street, Philadelphia, Penna.

1914 PATTERN .303 BRITISH ENFIELD, Excellent, $50.00. 1944 Mauser 8mm. military, excellent, $50.00. Brennan, 64 Clinton Avenue, Jersey City, N. J.

COLT ARMY SPECIAL .38, VERY GOOD INside, holster spots outside, case, holster, ammunition, rod, $45.00. M. W. Scanlon, Life Member, Oreland, Penna.

900 HANDLOADS, 2—250-3000, 55SP, ABOUT 3500FS, $13.00 C. Made from 30-06 cases. Reloads too. Bert Shay, Wurtsboro, N. Y.

30 LUGER EXCELLENT CONDITION 4½" BARrel safety grip, $68.00. Romer Chandler, 812 9th Ave., N. E., Minot, North Dakota.

JAP ARISAKA RIFLE 7.7 WITH BAYONET AND scabbard, good $30.00. John D. Lynch, West Grove, Penna.

WEAVER 29S, ALBREE MONOMOUNT, SOME bluing wear, otherwise excellent, $14.50. Charles Dennis, Marion, Alabama.

.257 ROBERT MAUSER ACTION, BARRELLED and altered by Sedgley, remodeled service stock, Lyman 5A scope, 10 power Litschert Obj. 70 rounds reloaded ammunition $150.00 good. Jack Andrus, 717 Iona Avenue, Akron, Ohio.

8MM. BIG GAME AMMUNITION FOR MAUSER rifles, safe hard-hitting. Thousands sold last year. Reserve yours NOW! Ratliff, Hillyard, Washington. 9-46

SELL: EXCELLENT CUSTOM 2R LOVELL WINchester hi-side set-triggers, Johnson relined heavy barrel, beautiful walnut stock, Fecker blocks, resizing die, Schmitt reloading dies, swivels, bullets, primers, cases, very accurate, $115.00. Redfield senior mount Winchester 70, $12.50. Niedner low mount, $12.50. Want Mountain trooper Mauser carbine barrel stock immaterial. Want Mauser action set-triggers. Circassian deluxe rifle blank. Charles Magnante, 120 Cabrini Blvd., New York City.

NEW LIST OF MUZZLE LOADING RIFLES. Also cap and ball revolvers for shooting. 3¢ stamp please. Kimball Arms Company, Woburn, Mass. tf

EXCELLENT THREE BARREL HUNTING rifle, Ed. Kettner, Coln & Suhl, double rifle barrels 9x80R, 16 gauge shot barrel under. Hammers and action nicely engraved, Circassian stock checkered, horn guard, grip cap and butt plate. Sling swivels, inside good, exterior shows some wear. $245.00. A. G. Sterling, Member, P. O. Box 345, 1123 Eye Street, Eureka, California.

ITHACA MODEL 37S, 12 GAUGE, NEW CONDITion, 1946 model fired 3 times, recoil pad, Cutts compensator and tubes, aluminum cleaning rod, leather case, 12 boxes shells, 28" barrel with full choke tube, complete $165.00, also Remington Matchmaster 513T perfect condition fired 20 times, complete with sling shells and cleaning rod, no sights, $40.00. Dr. Ivan Dickson, Yorkville, Illinois.

BEAUTIFUL 30-06 SEDGLEY SPRINGFIELD Sporter, absolutely perfect, selected stock, recoil pad, Lyman 48 rear, goldbead front, brand new Lyman Alaskan with Lee Dot, lens caps, and leather belt case, mounted on Griffin & Howe double lever detachable mount, sling, carrying case and six boxes ammunition, $240.00. Money back guaranteed. M. J. Lowen, 930 Central Park Ave., Yonkers, N. Y.

.357 MAGNUM 3½ PERFECT MYERS QUICK draw holster, 50 Magnum loads, standard and horn stocks, $115.00. L. K. Wildberg, 16300 South Moreland, Cleveland, Ohio.

WILD GEESE, DUCKS, PEAFOWL, PHEASANTS, pigeons, rabbits. Prices free. Jewel Game Farm, Danville, Ill.

THESE LIGHTWEIGHT PAULINS MAKE A splendid water proof tent or leanto. Made of rubberized fabric, they are yellow one side, blue on other. Size 7 ft. x 10½ ft. weight only 3½ lbs. Equipped with 20 grommets. Tent size 7' wide 7' long, 4' high. Poles, stakes, ropes and flaps, not included. Ask for stock #77. $9.95 postpaid. Army mosquito headnets 95¢. Plastic wrist compasses $3.50. Floating flashlights with two bulbs and battery $1.50. Collapsible pneumatic rubber life boats, size one man to seven man inclusive. Prices $14.85 to $99.50. Send for literature. Karl Ort, Dept. AM, York, Penna.

SLEEP-RITE NOISE STOPPERS IMPROVE YOUR shooting, sleeping and health. Free sample, testimonials, health secrets. Raymond Dow, 2922 164th Street, Flushing 6, N. Y.

RIFLEMAN, 1935-1945 INCLUSIVE, 6 ISSUES missing $15.00. R. H. Borth, 13949 Prevost, Detroit, Mich.

WINCHESTER 52 H.B. VERY GOOD IN, GOOD out, Marble Goss rear, vaver front, $65.00. Money order. N. E. Walters, Spencer, Ohio.

COLT .22 CALIBER AUTOMATIC PISTOL 6" barrel some blue wear, very good price $35.00. 8mm. Mauser sporter Beavertail forearm Monte Carlo stock, good $30.00. H. Hoffman, Herndon, Kansas.

NATIONAL MATCH .45 COLT AUTOMATIC, perfect, never been fired, 100 rounds of ammunition $75.00. Money order only. Springfield 1903, excellent, forearm shortened, fired not over 20 times, $60.00. Money order only. Robert Gonzagowski, Waldorf, Minnesota.

.35 CALIBER NEWTON, VERY GOOD WITH 200 rounds, Western factory loads, $150.00. R. E. MacGlashan, Box 1515, Ketchikan, Alaska.

COLT .38 CALIBER REVOLVER HAMMERS for Colt DA-Navy model 1901-1905 good condition, $1.50 each. .45 caliber Colt automatic pistol magazines, good condition, $1.75 each. Forward money with order. No C.O.D. shipments. Public Sport Shops, Dept. R75, 13 South 16th Street, Philadelphia, Penna.

WINCHESTER MODEL 54-30-06, GOOD IN AND out, Lyman 48, low mounted Noske, #2 base, $85.00. Franklin Arsenal Brass 30-06, shot once. $7.50 per M. Joe A. Summers, Johnson City, Tennessee.

29S WEAVER SCOPE EXCELLENT $12.50; NEW 30-06 ammunition; 150 gr. bullet $6.50 per hundred. H. I. Simonds, 807 Edgehill Road, Jacksonville, Illinois.

1 COLT, OFFICERS MODEL 38, HEAVY 6" barrel, walnut checkered stock and checkered trigger, specially made, Smith & Wesson, K22 long rifle, grip adapters, 6" barrel; 4 boxes .38 Special shells, cleaning rods, Hartmann leather case, entire outfit like new price $135.00. Money back guarantee. Frank Pugliese, 1757 South Broad Street, Trenton 10, N. J.

.270 CUSTOM MAUSER WINCHESTER BARrel, set triggers, beautiful Oregon Myrtlewood stock, Alaskan scope, Sorenson mount. A fine custom job built by Earl Livermore for Movie Star Sportsmen. Very good $450.00. No C.O.D. Member. F. W. Dugan, 634 South Gramercy Place, Los Angeles 5, California.

LYMAN ALASKAN SCOPES COATED LENSES post or crosshair reticules $50.00 prepaid, lens caps free. Weaver K2.5 $34.50 prepaid. Weaver 1X shotgun scope $25.00. Two Mauser military and two Enfield stocks excellent each $7.00. Model 70 Winchester stock excellent $18.00. Model 52 Winchester stock excellent $10.00 (old model) Mauser 8mm. barrel new bore $10.00. Single shot rifle caliber 5.6x52 (.22 Hi-Power) Diana shotgun type action set triggers made by Greifelt of Suhl, Ajax 2¼ power scope excellent in and out $150.00. DWM Luger 1916 9mm. very good $65.00. Luger receiver and barrel 9mm. good $15.00. Walther P.38 never shot has slight marks on outside from overseas shipment $55.00. Enfield sporter custom stock Redfield sights very good $75.00. F. J. Weiss, 2201 North 15th Street, Sheboygan, Wisconsin.

ENGLISH 12 GAUGE 28" IMP. & MOD. 14¼ x 1½ x 2"—6½ lbs initial plate straight dark stock new condition inside and out cost $250.00, sell $175.00. H. J. Ferry, Longmeadow, Massachusetts.

P.38 GERMAN OFFICERS AUTOMATIC PISTOL, good condition, $57.50. Browning Officers Military automatic pistol, caliber 765, good condition, $35.00. Luger automatic pistol, 3¾" barrel, calibers 30 & 9mm., good condition $45.00. Czechoslavakian Officers Pocket model 27, automatic pistol, good condition $50.00. Mauser, 32 caliber automatic pistol, double action, excellent condition, $50.00. Colt .45 Service automatic pistol, good condition, $50.00. Special—Colt Percussion revolvers, 1851, 36 caliber Navy, 31 caliber Belt model. All complete and in good working condition, Collectors items, $32.50 each. Forward money with order. No C.O.D. Shipments. Public Sports Shops, Dept. R75, 13 South 16th Street, Philadelphia, Penna.

"You can only Shoot as well as you can See"

Says Noted Gun Editor!!

SEE BETTER WITH G88

THE TOP QUALITY RIFLE TELESCOPE

A precision built easily adjusted telescope will help you See better and Shoot better.

YOUR G88 DEALER CAN PROVE IT SEE HIM TODAY

Cut down the number of shots you miss because you can't see the game properly. Mount a G88 Telescope on your rifle and start seeing better. For when a G88 helps you see better you will shoot better. Your local Sporting Goods Dealer will be glad to show you how the top quality optical system in a G88 makes seeing easier—and shooting more accurate. He will also show you how the accurate, positive, recoil-proof reticule adjustments in G88 take the drudgery and guesswork out of "sighting in". How the rugged construction of G88 holds sight alignment even on the highest power rifles. Don't let hard seeing iron sights penalize your shooting this Fall. Mount a G88 Telescope on your rifle now and really see what you aim at. Your Sporting Goods Dealer has a G88 for you now. See him today. Get a G88. See better this Fall.

G88 SPECIFICATIONS

Magnification	2½X	4½X	6X
Field at 100 yds.	aprox 40 ft.	aprox. 28 ft.	aprox. 16 ft.
Eye Relief	3 to 5 inches	3 to 4 inches	3 to 4 inches
Overall Length	10¾ ins.	10¾ ins.	12¾ ins.
Main Tube Diameter	22mm.	22mm.	22mm.
Eyepiece Tube Diameter	15/16 in.	15/16 in.	15/16 in.
Coated Lenses	Yes	Yes	Yes

THE MAXWELL SMITH CO
Los Angeles 25, California

SPORTERS
from Military Rifles

With our new set-up and added personnel we can now give you Custom Sporters at a price unmatched for your gun dollar. New folder on request.

GENTILE GUN SHOP
73 Canal Street Waterbury, Conn.

GUN BLUING $1.50 8 oz.
Quick Method Bluing Solution

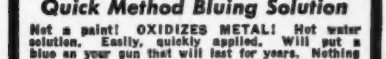
Not a paint! OXIDIZES METAL! Hot water solution. Easily, quickly applied. Will put a blue on your gun that will last for years. Nothing else like it on market. Complete directions with each bottle. Express Pre-Paid.
PARKER-WHELEN CO. 827 14th St. N.W. Wash. D.C.

Will Buy, Sell or Trade

New High Standard M-HD Military 22 Cal. 6¾ or 4½-inch Heavy Barrel, Walnut Grip	$51.17
New Lyman Alaskan Scope (No Mount)	49.00
New H&R .22 Cal. Leatherneck Sporter M-165	57.44
New H&R .22 Cal. Targeteer M-265	34.19
New H&R .22 Cal. Regular M-365	28.24
New I. J. 12-16 Gauge Shotguns	15.25
30-06 M. C. Ammo., late date, per 100	5.00
45 A. C. Ammo., late date, per 100	4.50
38 Special 158 Gr. per box	1.90

Free List Shotgun Shells.
ADRIEN J. GRENIER, North Grosvenordale, Conn.

SPRINGFIELD RIFLE STOCKS



Brand-new 1903A1 stocks. Fit all models of Springfield.....$3.50
Also new handguards, bolts, and all '03 parts. Send for free price list.

JOHN P. GSCHWIND
4124 N. Leamington Ave. Chicago 41, Ill.

NRA AUTO EMBLEM

This new type of emblem is manufactured from Reflexite, a product developed during the war. In the daytime the emblem is attractively reproduced in red, white and blue; at night it is brilliantly reflected when viewed in the light of an auto headlight.

Face of reflector measures 3½" and it has a red background with eagle and lettering in dark blue and white. Self-locking nut furnished makes emblem easily attachable and prevents reflector coming loose. Tell the World you are a shooter-sportsman. Order this distinctive 3-color N.R.A. emblem for *your* car. The cost ? —Only $1.00 postpaid.

GOLD LIFE BUTTON

A neat 10K. gold button for LIFE MEMBERS. (Colorful Life Member brassard, 50¢ extra.)

$2.75

Fed. tax included

OFFICIAL TRIGGER WEIGHTS

Official NRA trigger test weights are now available with 2 handles suitable for testing rifle and pistol triggers of any caliber. Price $3.00, postpaid.

ALL PURPOSE SCORE GAUGE

Our new aluminum 4 in 1 target scoring plug gauge contains accurate flanges on a single stem for scoring caliber .22, .32, .38 and .45 bullet holes. Price 75 cents, postpaid.

HANDY BINDER FOR RIFLEMAN

$2.25

This practical loose leaf type binder makes a handy reference volume for your magazines. It holds a whole year of the RIFLEMAN and it takes the larger 1943 copies as well as the current size magazine.

NATIONAL RIFLE ASSOCIATION

1600 R. I. Avenue Washington 6, D. C.

SHOOTING EQUIPMENT

Argus Super Grade Spotting Scope, 20X, conted lenses	$74.50
Argus Scope Stand, black	8.50
Argus Leather Scope Case	15.00
B. & L. Scope Stand, olive drab	11.25
Randle Scope Stand, 16 oz.	5.00
Weaver K2.5 Scope, conted lenses, Type U Mount	44.25
Weaver K4 Scope 4X, coated	44.00
Stith Q.E.D. Mount, Weaver K2.5, 54 or 70 Win.	17.50
Stith Mount, Weaver, Sav. 99	15.00
Redfield Jr. Mounts, K2.5 or K4, for all rifles	14.75
Redfield Jr. Mount, Alaskan	12.75
B & L Binoculars, conted lens:	
6X30, Case, Straps, Tax, C.F.	134.40
7X35, Case, Straps, Tax, C.F.	140.40
8X30, Case, Straps, Tax, C.F.	148.80
8X40, Case, Straps, Tax, C.F.	168.00
9X35, Case, Straps, Tax, C.F.	158.40
Pacific Reloading Tool, 30-06, Complete, F.O.B. Dallas	22.50
Rem. 513T .22 Target Rifle, Sling, Peep Sights	48.75
Brass Brushes, .22, .30, .38, .45	.20
New Regulation Sling, 1¼"	1.50
Randle Cartridge Block, .22 Cal.	.75
Randle Metal Sling Keeper	1.00
Pope's Gun Blue	1.50
Waterproof Ground Cloth	4.95

Above items sent prepaid

We are still short on many items we had before the war. Conditions are improving slowly. Please bear with us if we cannot fill your order completely and promptly.

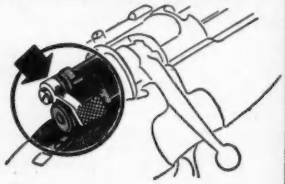
Southwestern Distributor Official N.R.A. Targets

THURMAN RANDLE & CO.

208 N. Akard St. Dallas 1, Texas

New SIDE LEVER Safety

. . . for Springfield, Mod. 54 Winchester and Mauser Rifles.



***Easy* to install . . . use only a screwdriver.**

Fits into bolt sleeve permitting 'scope to be mounted as low as bolt handle allows.

$4.75

POSTPAID

Unconditional Guarantee

D. C. FERGUSON

1337 Ft. Stevens Dr., N. W., Wash. 11, D. C.

MILLER BEDFORD, New London, Ohio
RARE GUN CROSSROADS OF AMERICA.
Send self-addressed stamped LONG envelope for "Bedford Bagle"—rare gun list. I'll buy your collections and your rarest and finest.

NEW STEVENS 12-30 FM $35.00; REMINGTON 11A 12-20 cyl. v.g. $55.00; Remington 11C-12-28 skeet, trap, good, $85.00; Ithaca 37-12 Cutts, 3 tubes v.g. $85.00; Sportsman 12-30F excellent $85.00; Poly Choke $100.00; Sportsman 20-28 Poly Choke $100.00; Remington 11B 12-27 rib, Poly Choke, v.g. $100.00. Albert Kaiser, McQuady, Ky.

SPRINGFIELD MI22 $80.00, 166 RIFLEMAN $20.00, 335 Magazines, $26.00. Stamp for details. C. Rainey, 311 South Court Street, Marion, Illinois.

REMINGTON 37 TARGET RIFLE, PERFECT prewar, Vaver front, Remington rear, sheepswool case, sling and keeper, 200 rounds Palma-Match, $125.00. P.38 perfect, holster and extra clip, cartridges, $67.50. Excellent 8X binoculars French Astra C.F., case and carrying straps, $40.00. Money orders please. Frank J. Coyle, 1317 South Tenth Street, Camden, New Jersey.

CLEAN HOUSE ROACH TRAP SUPPLIES FISH-bait keeps home clean from all roaches 50¢ at pet shops or two postpaid $1.00. Roach Trap Co., Ft. Smith, Arkansas.

FOLLOWING BARGAINS BECAUSE I AM TOP heavy with loot: 6x30 Dienstglas, new $40.00. 7x50 Dienstglas featherweight, new, perfect, $110.00. Winchester 52 standard with Lyman 48 extension rear, Redfield Globe front, outside good, inside excellent; a masterpiece with match ammunition $70.00. 7.63 Mauser pistol, good in, excellent out, $45.00. 9mm. Steyr model 1912, very good $38.00. 9mm. Star Espana, a copy of the Colt .45, perfect, $45.00. 9mm. Luger, pitted bore, excellent out, accurate, $40.00. Browning 9mm. auto. pistol, factory new, $50.00. Browning 7.65 pistol, new $40.00. Browning 6.35 pistol, new, $35.00. .38 Smith & Wesson special as issue, excellent $45.00. Three barrel NIMROD by Suhl, 16 ga. nitro steel, 27", mod. full, 8mm. rifle under, excellent in, forearm scratched out, $100.00. 8.15x46 NORM. German bull target, Syst Aydt (drop block) action, beautiful engraving, excellent $100.00. Full length .22 caliber adapter for 8mm. rifles, excellent, $35.00. German Officers sabers $5.00. Stamp Please. M. L. Smith, Rt. #3, Bryan, Texas.

KENTUCKIES FOR SHOOTING, COMPLETELY reconditioned rifles with horn, measure, mould, etc. $40.00, up list. R. Southgate, Rt. #1, Madison, Tennessee.

2 SADDLES; ONE MCCELLAN $40.00, ONE COW saddle, $75.00, very good condition. J. R. Care, R.D. #3, Norristown, Penna.

PERFECT WEAVER 29S, $10.00; NEW 330, $25.00. Perfect Vaver 35 rear, Winchester M70, $9.00. Some parts; Luger, P.38. Money orders, please. F. W. Sedekum, 917 Ruskin, Edwardsville, Illinois.

CHOICE LITTER OF GERMAN SHORTHAIRED Pointer pups from the famous Schwarenberg line of champions. Best of hunting and show stock, $50.00. W. Y. Bakeman, 931 Bayard Ave., St. Paul, Minnesota.

ENFIELD SPORTER, 30-06 CONDITION EXcellent, $50.00. Bernard Downs, Cuba City, Wisconsin.

ANTIQUE AND OBSOLETE FIREARMS LIST 25¢ refunded first order. William F. Flynn, 2314 Van Brunt Blvd. Kansas City 1, Missouri.

PARKER V.H. 16-28", MOD. FULL, MILLER single trigger, 6¾-2¾, 1⅛, 14, excellent, examination, $125.00. E.S. Hull, Arkport, New York.

.270 BUHMILLER BARREL, LATE MAUSER action, acorn bolt knob, Bishop stock, recoil pad, Lyman Alaskan scope with bridge type mount quick detachable, weight 8¼ lbs, excellent condition for $185.00. John H. Knecht, Rt. #2, Box 445, Los Altos, California.

2 SERVICE SPRINGFIELD BOLTS COMPLETE $4.00 each, 2 same, stripped $2.00. K. E. Bloom, 5762 Walnut St., Oakland 2, California.

GERMAN ARMY BINOCULARS 10X50 VERY good with case $120.00, 6x30 no case, $60.00. 9mm. Luger excellent with holster, extra magazine $75.00. A. A. Smith, 1967 Wilson Avenue, Salt Lake City, Utah.

TWO NIPIGON BIG GAME AND FISH PROPERties, Thunder Bay District, Ontario. Famous for moose, bear, deer, brooktrout, lakers. Near Trans-Canadian Highway, graveled road crossing properties, situated between two deep bays of Lake Superior, 12 mi. south Nipigon Village, ¾ mile Black Sturgeon River, ½ mile Everard railway station. Pictures on request. 20 acres $280.00, 60 acres $480.00. Title guaranteed. First cash offers buy. Roy Bakkum, Waukon, Iowa

WINCHESTER MODEL 12-12 GAUGE, SKEET, solid rib, Cutts, three tubes, leather case, $185.00. Colts .45 Government automatic model 1911, blued, handhoned, new barrel, 22-45 conversion unit, $100.00. All excellent to perfect. Send stamps with inquiries. Henry M. Alford, Box 1039, Jackson, Tenn.

JAP NAMBU PISTOL, MODEL 194, GOOD $25.00; Model 14, good, $25.00. Jap 8.8mm. Sniper rifle fair $20.00. Forehand and Wadsworth #32 double action revolver nickel plated, fair $15.00. J. R. Wait, Old Ocean, Texas.

RAISE TURKEYS THE NEW WAY. WRITE for free information explaining how to make up to $3000 in your own backyard. Address National Turkey Institute, Dept. 251, Columbus, Kansas. 10-46

40° MBT—SEMI-WILDCATS. USE FACTORY cartridges. Reloaded—300-500 FT. Sec. increase. (.35 WCF40°-2600 FT. Sec. 3800 Ft. lbs. Collectors cartridges. Lists 15¢. H. R. Longo, Trinidad, Colorado.

.22 CALIBER BULLETS—FOR SALE—SHORTS, Longs, Long Rifles. $12.50 per 500. Also Pistol ammunition .38 caliber S&W Kleanbore 146 gr. lead. And .38 caliber Special Remington Kleanbore "Target Master" 146 gr. wad-cutter, both $6.00 per 100. Send Money Order or check with order. Immediate shipment. John Christopher, Room 2004, 220 West 42nd Street, New York City, N. Y.

L.C. SMITH, D.B. HAMMERLESS, FIELD GRADE shotguns, 26" 12 gauge cylinder Bored barrel, $52.50 each. Forward money with order. No C.O.D. shipments. Public Sport Shops, Dept. R75, 13 South 16th Street, Philadelphia, Penna.

401 WINCHESTER $50.00. GOOD IN, FAIR out. Dr. John S. Anderson, Gordon, Nebraska.

.22-250 SEDGLEY SPRINGFIELD Q.D. SWIVELS sling, 2 boxes shells, slight blue wear at muzzle, otherwise excellent $115.00. L. J. Beller, Montgomery, W. Va.

BARRELS ONLY PERFECT #1 ITHACA 16 gauge 26" modified imp. cylinder $20.00. Chester R. Worman, 1525 Chelsea Avenue, Bethlehem, Penna.

LUGER 9MM. 4" BARREL EXCELLENT throughout 1911 manufacture parts matched. Ammunition $75.00. Communicate A. W. Park, 54 Elm Park Road, St. Vital, Manitoba, Canada.

.22 CROSSMAN SINGLE 200 PELLETS, $11.00, also 300 prewar 55 gr. S 8 bullets $9.00. Harold C. Tenney, Gordon, Nebraska.

ANNOUNCING NEW CATALOG #26 DESCRIBing over 3000 bargains 30¢. Antique modern firearms, ammunition, accessories, war relics, swords, knives, binoculars. 6x30 Voightlander $78.00. Brand new .45-70 Springfield $23.50. Plenty ammunition $2.50 box. 30-06 barrels, good $4.50. 1903 Springfield stocks $4.50. Springfield Service rifle, excellent $65.00. Krag Sporters, excellent, $54.00, and $68.00. 32-40 Stevens #45, excellent $68.00. .22 Winchester Musket, excellent $38.50. .32 Walther PPK, excellent $60.00. .32 Sauer double action, excellent $60.00. .380 Colt automatic, excellent $42.50. .455 Webley, very good $58.00. .38 Enfield revolver, excellent, $54.00. .44-40 Colt Frontier, silver and gold, fancy grips, very good $80.00. Many Frontiers, automatics, Kentucky rifles. John Smith, Rambler Ave., Runnemede, New Jersey.

HI-STANDARD, H-DM, 4½" BARREL, PERfect, extra clip, $55.00. Model 62 Winchester, very good $20.00. T. R. Geisert, 471 Ridge Avenue, Lawrenceburg, Indiana.

CARTRIDGE COLLECTION IN CABINET. More than 2300 specimens, $340.00 FOB. Stamp for information. Harry Hill, Masonic Temple, Ridgeway, Penna.

BROWNING AUTO'S AND OVER AND UNDERS. Winchester model 21's trap and skeet. Many others, new and used. Stamp for description and price. Pettit's Gun Exchange, Emmetsburg, Iowa.

S&W .44 RUSSIAN, PAYNE MODEL, WALNUT stocks, rear excellent, 50 loads, $75.00. Haenel, Mann. 8mm, full rib, D.S. embossed receiver, excellent 25 loads, $125.00. Lefever 16ga. double, nitro special, M&F 40 loads, excellent $60.00. Trades considered. E. Griffin, Deerland, N. Y.

.257 MAUSER 98, D.S.T.'s, BUHMILLER BARrel, altered safety. Circassian walnut stock, rubber recoil pad, new 10X Unertl scope, sling, Pacific dies, cases, primers, powder, bullets, perfect in, slight blue wear out, fired less than 300 times, accurate, real Vermin outfit, $240.00. Winchester model 1895, caliber .405, 45 rounds, excellent $75.00. Two Jr. Targetspots 8X, optically perfect, slight blue wear, $50.00 each. Match target, excellent, $67.50. C. G. Bailey, Richlands, Virginia.

EXCELLENT .38 SPECIAL COLTS OFFICERS model, inside perfect, very slight holster wear on blue, holster, 100 rounds, 300 empties, nice two compartment box $70.00. V.G. .41 Remington double Deringer, new reblue, 150 rounds, $27.50. Walther PP excellent $45.00. Pair old line Colts .22's, light pitting in, good out, good shooting order, $15.00 each. Good .32 Colts auto, Franzite ivories, shoulder holster, 20 rounds, $30.00. Send 6¢ for list #2 of antique and modern guns. McCool Gun Co., Henryville, Penna.

SHOOTERS—

NOW IS THE TIME!

To order your Jordan Multiple Reloading Press

Don't wait until the fall shooting season has opened and hunting season is at hand.

Order your JORDAN TOOL now and have it set up with a supply of your favorite caliber loads on hand when those nippy days of fall call.

Get the JORDAN'S greater accuracy, economy, and dependability.

Take advantage of CAMERON'S prompt, personal attention to all inquiries and orders.

•

Write for illustrated pamphlet and price list.

••

CAMERON MANUFACTURING CORP.

Box 309 Emporium, Pa.

GOOD BOOKS for the SHOOTER

Firearms in American History, Sawyer	$5.00
Firearms of the Confederacy, Fuller-Steuart	12.50
Gunnerman's Gold, Bigelow	7.50
Hand Cannon to Automatic, Logan	5.00
Pistol and Revolver Shooting, Roper	2.49
Smith and Wesson Hand Guns, McHenry-Roper	7.50
Commonsense Shotgun Shooting, Etchen	6.00
Gun Care and Repair, Chapel	3.75
The Ducks Came Back, Farrington	5.00

SHOOTERS' GOODS

Brass Cleaning Rods, jointed, all cals.	$1.50
Shotgun brushes, bronze or bristle	.35
Rifle brushes, brass or bristle, .22 to .45	.15
Hoppe's Nitro Solvent, #9, 2 oz.	.35
Hoppe's Gun Oil, 3 oz.	.30
Hoppe's Gun Cleaning Packs	1.00
U. S. Barrel Blue	1.25
Nimrod Gun Stock Finisher	.75

FRANZITE GRIPS for HANDGUNS

Moulded from plastic, in six colors: Ivory, Pearl, Walnut, Onyx, Petrified Wood, Black. Prices for popular models:

C-32, Colt .32 and .380 Auto	$2.00
C-45, Colt .38 Super, .45 Auto, .22 Acc.	2.50
C-WD, Colt Woodsman (standard size)	2.50
SA, Colt Single Action Army	2.75
Bis, Colt Bisley	3.00
NS, Colt New Service, and US M1917	2.75
OP, Colt Off. Pol., OMT, Army Spec.	2.50
RP, S&W Reg. Pol. .32 and .38, .22 Kit, .22/32 Target, .38 Terrier (has square grip to fit over round butt)	3.00
MPSq, S&W Mil. & Pol. with square grips	2.50
HD .38/44 Hvy. Duty, Outdoorsman, .44 Mil., Target, M1917, etc.	2.75

Will quote on others. Name your gun.

LINWOOD SPORTS COMPANY

Box 377 Linwood, Mass.

CUSTOM RETICULE SERVICE

"Little Joe Dot"

622 West 2nd St. Medford, Oregon

A-1 ARMY "ARCTIC"

SLEEPING BAGS

Enjoy a genuine army 40% down and 60% feather Arctic sleeping bag. Your choice of outer bag with full zipper or inner bag with half zipper. Each bag is in "like new" condition. $12.50 FOB Seattle

Sleeping Bag Liners.....prepaid, $1.25
Poplin Sleeping Bag Covers...prepaid, 3.25

FRAME PACKSACKS

Has large heavy canvas sack mounted on tubular frame, lots of pockets. Fully adjustable. Wt. 5½ lbs. Fed. Tax Incl. Each .....Prepaid $3.95

.30 CAL. ARMY RIFLE RODS

Single-piece quality steel rod, copper plated, with aluminum swivel handle. Rod is complete with .30 cal. bristle brush. Prepaid 69¢

RUBBER RECOIL BOOT

Slips over stocks of shotguns & rifles. Complete with thick rubber pad insert that absorbs recoil. Both for Prepaid 69c

G-88 SCOPES

Choice of 2½x or 4½x 22m/m hard coated lenses. Prepaid.... $50.00

STITH SCOPE MOUNTS

"Mount it yourself"

STITH MOUNTS FOR 338 WEAVER SCOPES. ....Prepaid	$12.00
to fit Win. m/70, Sav. m/99, to fit Win. m/63, Rem. m/720, m/8l, m/14l, m/513T	$16.50
Stith Q.E.D. Mt. for Win. m/70 Prepaid	$16.50

440-S WEAVER SCOPE. Post Only. $31.75
With "T" Mounts.....Prepaid $36.25
With "B" Mounts.....Prepaid $42.50
With Redfield Jr. Mt. $42.50

Nydar SHOTGUN SIGHT

For all shotguns. Tyne Reticule used during war on aircraft guns. Give make and model. $27.45 prepaid

30-06 GALLERY CARTRIDGES

2" Group at 50 yds.
Box of 20 ..... 75c
FOB Seattle

Minimum order 3 boxes

Order by Mail! Orders Filled Promptly.
Write Dept. B.
Dealer Inquiry Invited

Warshals SPORTING GOODS CO.

First and Madison ★ Seattle 4, Washington

Specialized GUNSMITH Supplies

with "HARDSTEEL" Drills

1/8" #28 & #31 ..... $5.70 each

Thermometers

Rochester precision thermometers designed especially for use in How-to-Blue tanks—economical—accurate—everlasting. Easily read two-inch indicator dial, made to fit to your tank. For the professional as well as the hobbyist.

With 6" stem $7.50

FELT WHEELS

The Very Best Trued Wheels

6" soft, med., hard	$4.00
8" x 1" x ½" soft	5.00
8" x 1" x ½" med.	6.00
8" x 1" x ½" hard	7.00

"How-to-Blue"

Is Single Immersion

requiring but ONE bluing tank, one High heat source, one good thermometer, and but a single operation to watch. Our personalized question and answer service is unequalled, our instructions complete.

10 lbs.	$4.00	6 lbs. cleaner	$1.00
20 lbs.	6.00	15 lbs. cleaner	2.00
50 lbs.	14.00	Gal. after-oil	5.00

(Be sure to order enough that your tank will have four inches depth of solution. 10 lbs. make one and one-half gallons.)

Bluing Tanks

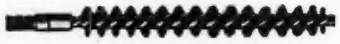
Black Iron—Welded seams

6" wide, 6" deep, 40" long $4.00
6" wide, 6" deep, 14" long $2.00

"Polish-O-Ray"

Greaseless, Messless, Fast Cutting Polish for Felt and Muslin Wheels. Used by over 2,000 gunsmiths and hobbyists. Grits 140, 240, 400. 2 lb. tube $1.00. 555 Master Finish, 3 lb. $1.50. F. O. B. Montezuma.

Mill-Rose



Precision Tools

.22, .30, .32, .38, .45 Rifle or Pistol. Each 15¢, or $1.20 a Dozen, Plus Postage. .410, 20, 16, 12 ga. Shotgun, 40¢ each, 4 for $1.20.

All Orders F.O.B. Montezuma, Ia. For P.P. Include Postage

BROWNELL INDUSTRIES
MONTEZUMA, IOWA

We have always accepted C.O.D. orders from N.R.A. Members

A NEW ARM CUFF!

SELF LOCKING . . . . . INSTANT RELEASE

Anti-pulse Action

A definite contribution to the smallbore shooter's comfort. Eases pulse vibration of rifle—reduces artery constriction to minimum. Sets itself automatically once sling adjustment is made. When through firing, a slight tug relieves arm pressure. Stays on shooting coat.

WISLER ARM CUFF **$3.50**

If not available through your dealer write direct to

WISLER WESTERN TARGETS

543 CLAY STREET **SAN FRANCISCO 11**

MASTER GUNSTOCK FINISH

One-day oil type finish, beautiful and durable. Saves time and labor, one application, anyone can use it. Enough for several stocks. $1.00 postpaid. No personal checks. Dealers write for prices.

HAWKEYE SHOOTERS SUPPLY CO.
Formerly Stolba Gun Repair Service
1606 3rd Street, S. W. Cedar Rapids, Iowa

• MEDAL CASES •

Genuine Walnut frame beautifully finished. Glass front. Black or Maroon velvet background. Three stock sizes. Reasonably priced. Send for descriptive folder

H. C. NIELSEN 630 Congress St. Neenah, Wisconsin

The new Model H-DM is available in limited quantities. Production will increase as rapidly as material can be obtained. Place order with dealer.

HIGH STANDARD MFG. CORP. 1811 Dixwell Av., New Haven, Conn.

ARMY-NAVY BARGAINS

Shotgun nipples, 4 for	$1.00
Flints, assorted, 10 for	1.00
Cartridge belt, cal. 30 double row	.60
Leather belt, black, bar buckle	.75
Antique oil cup	.25
Wire brush, cal. 30	.50
Krag rear sight, Model '92	1.00

Prices do NOT include postage. 1945 catalog, 398 pages, mailed for one dollar. Circular for 3¢ stamp.

FRANCIS BANNERMAN SONS, 501 BDWY., N. Y. 12

BULLETS .22 CALIBER $2.20. .25 CALIBER $2.45 to $2.65. .30 caliber $2.97. Complete line of Dupont powders. Hercules #2400, Hivel #2. $1.55, Unique and Bullseye 14 oz. $1.70. Red Dot lb. $1.70. Weaver K4 scope $44.00. K2.5 $38.00 postpaid. Modern Bond loading tools. Marlin Arms. Also black powder. Arthur E. Anderson, Santa Margarita, California.

8MM. MAUSER 98 SPORTER, BISHOP STOCK, v.g. 50 issue cartridges, $65.00. 8mm. French carbine, MAS 36, v.g. $20.00. E. R. Stott, 531 No. 2, E., Provo, Utah.

SAVAGE 16GA. PUMP (RANGER) 28" NEW. Prooftest. (3) @ $46.00 each. Same but shopworn $37.00. Wanted good camera. Krzak, Pawtucket, R. I.

THRILLING, GRADE A, PRE-WAR IMPORTED 20 gauge skeet, over and under. Birds eye maple, inlaid walnut stock and forearm. Unsurpassed quality, design and workmanship. Excellent condition. Beautiful fitted leather case. Gun and case $485.00. Large double view photograph of gun for details, sent on request only for $1.00. W. Harvey, Box 872, Marshalltown, Iowa.

CARTRIDGE COLLECTORS, SEND 20¢ FOR my new, big Single Specimen price list #408. Charles Shattuck, Cherry Creek, N. Y.

MODEL 70, 30-06 FACTORY REMODELED from Swift. Fired 30 rounds. Lyman 48, Weaver 29S, Redfield Junior mount; sling case. Original Swift Barrel: *All* excellent, few scratches on stock. Few rounds ammunition $185.00. T. B. Younger, 2001 "O" Street, N. W., Washington, D. C.

MALLARD DECOYS LIFE SIZE LIGHTWEIGHT, Kapok fiber covered very durable resembles actual live duck. Value $25.00 per dozen, Special $13.50 dozen. Forward money with order. No C.O.D. shipments. Public Sport Shops, Dept. R75, 13 South 16th Street, Philadelphia, Penna.

M513T, REDFIELD SIGHTS, SCOPE BLOCKS, trigger shoe, and sling, perfect; Fecker ¾" 4.5X, bluing worn, $80.00 for outfit. Wanted: Model 12 or 31, 12 or 20 gauge with plain barrel, matted or ventilated rib; Lefever single trap; and barrel and magazine for Radom P35. All letters stating condition and price on wanted items answered. Kenneth E. Black, Waterville, Washington.

WINCHESTER MODEL 75, CALIBER .22, NEW perfect, $47.75. Remington model 141, pump, caliber .35, new perfect, $76.90. Case (500) Kleanbore 12 ga. skeet loads, $25.00. Case 12 ga. half Hi-speeds, balance regular, mostly 6s, $30.00, stamp please. Mark V. Kibbe, Ulysses, Penna.

SPERM OIL FOR YOUR GUNS, MACHINES, non drying oil for drilling, taping and reaming $1.00 per pint, FOB. Pend Oreille Sport Shop, Sandpoint, Idaho.

MODEL 70, .270, INSIDE PERFECT, OUTSIDE excellent, 440, Lee Dot Redfield mounts, 2 boxes shells, sling, $170.00. W. L. Boren, Sinclair, Wyo.

H&R REISING .22 CALIBER AUTOMATIC rifle. Redfield sight perfect, price $48.00. Wallace Shields, Salmons, Kentucky.

MODEL 70, SUPER GRADE SWIFT, RECHAMbered, Varminter by Gebby, targetweight barrel (floating type), standard bases, excellent plus, bullets, primers, cases, included, price $185.00. For details stamp. Write H. Knox, 2029 Jackson, Joplin, Mo.

P.38, HOLSTER GOOD, $25.00, EXCELLENT $35.00, 100 rounds $5.00. Nambu 8mm. Jap, holster, fair, 2 clips $25.00. New $45.00, 45 rounds $5.00. .45 auto. fair $28.00. Luger, holster, good $35.00, Radom, holster, good $25.00, P.35 Belgium, holster, v-good $35.00. Beretta, holster, v-good $25.00. PPK Walther, v-good $30.00, excellent $35.00. 4X Sniper scopes $20.00. Gerard 4X, mounts for Mauser, excellent $35.00. .303 Lee Enfield, excellent $45.00. Jap 7.7 fair $15.00. excellent $25.00. 6.5 carbines, v-good $25.00, fair $15.00. 2R Lovell, Krag S.S., custom stock, v-good, blocks, med. wt., cases, primers, bullets, 8X Winchester scope $75.00. Free list. Drop in at Aurand's, 229 E. Third St., Lewistown, Penna.

BROWNING O&U TRAP 12 GA. 32" F&F, NEW condition, $225.00. Griffin and Howe, 30-06 Springfield deluxe, scope mounts perfect, $200.00. 30-06 Springfield remodeled deluxe rifle, very good $145.00. Remington auto. 20 ga. ribbed barrel, very good $85.00. Winchester 21-12 ga. 3" Magnum, 30" F&M Beavertail forearm, single selective, no auto ejectors, new condition, $145.00. VHE Parker 12 ga. double 30" F&M auto ejectors, double triggers, very good $90.00. Military Hi-Standard .22 target auto pistol, never shot, new $49.50. P.38 auto pistol, perfect, holster, $30.00. 8mm. German auto rifle, 2 clips, action excellent, $55.00. 1 8mm. Mauser military, excellent $35.00. 1 25 caliber Remington auto 8 rifle, 80 shells, just remodeled, $80.00. Telescope and mount, 29S $12.00. 1 new shell Lake Duck Boat, $100.00. 1 Lejay electrol outboard motor, new, never used, $24.00. Want: Winchester 21 shotgun, any gauge, prefer 16 or 20. R. A. Larson, Wells, Minnesota.

MAGAZINES — BUSINESS, TRADE, PROFESsional. Keep informed on developments, opportunities, etc. Current copies. Choice 763 publications. All fields. FREE price list. Commercial Engraving Publishing Co., 34B North Ritter, Indianapolis 1, Indiana.

12 GAUGE OO BUCK SHOTGUN SHELLS (9 pellets) per box of 25, $1.68, add 50¢ for packing. No limit while stock lasts. N. R. Rudolph's, Atchison, Kansas. 12-46

REMINGTON 30 EXPRESS, 30-06, SLING, LYman receiver sight, two boxes factory ammunition, perfect $125.00. Winchester M70 .270, with Redfield Jr. base, and rings for Weaver 330 or K2.5, Pacific dies, 100 cases, 300 bullets, all excellent, $200.00. Weaver K2.5 with 6X Litschert attachment, perfect $60.00. Noske 4X, perfect, with Stith mounts for M70, $65.00. G. F. Snider, Box 213, Connersville, Indiana.

S&W .38 SPECIAL 4" BARREL, GOLD PLATED S&W monogram, perfect, price $57.50. Member. Wallace Shields, Salmons, Kentucky.

MODEL 70 WINCHESTER 30-06 NEW K2.5 Weaver and Redfield Jr. mounts 3 boxes factory fresh ammunition. Condition perfect $185.00 M.O. G. Howard Breen, 126 No. Mitchell St., Cadillac, Mich.

ENFIELD, NEW CONDITION, WITH SLING $75.00. Compass, Navy, watch type, $3.00 new. Goggles, flying B-7 rubber padded chamois lined, metal frames, $3.00 pair. 30-06 gallery practice cartridges, $5.50 per hundred. Tap and die set, little giant, 15 collets, 45 taps, new $32.50. Francis S. Boggess, Liberty, Missouri.

BRITISH .303 CALIBER CARTRIDGES, 174 grain, metal point bullet, late Winchester make, per 100, $6.25 and per 1000, $50.00. Hudson Sporting Goods Company, R-52 Warren Street, New York.

WINCHESTERS—FIVE CENTENNIAL 1876 AND five model 1886 rifles, $167.50 the lot. Clean, complete, various calibers. James Serven, Santa Ana, Calif.

SPRINGFIELD SPORTER PISTOL GRIP, NIEDner .25-06 caliber barrel Noske scope Redfield mount, excellent within and out, 25 cartridges, 100 empty cases, 1 can powder, 200 primers, powder scale and some loading tools. Price $150.00. Carl Grasswick, Valley City, No. Dak.

STEVENS 620, 16 GA. NEW, $48.00, REMINGton 50 caliber Navy pistol, ammo. v.g. $31.50. 35 Winchester, ammo. CP $1.75. Want Mauser action. Walter Whitcomb, Gladstone, Oregon.

RIFLEMAN MAGAZINE, ALL PERFECT, bound copies $3.00 per year 1939-40-41-42; not bound, $1.50 per year, 1943-44-45. Perfect Winchester rifle model 68, $10.00. Perfect Remington Hornet pointed soft point 45 grain bullets, $2.50 per 100. Perfect NMNC Remington 6½ primers, 90¢ per 100. Edward Van Hamont, 120 East 85th Street, New York 28, N. Y.

7.50 B&L COATED, CASE, EXCELLENT, $140.00. M70, 270, Alaskan, Two dots, Stith, Tilden safety, Recoil pad, hand rubbed oil stock, perfect, $195.00. Mauser .219 Wasp new, DST, altered, bolt handle, safety, custom Burl stock 1" Unertl 6X, 8X eyepiece, ¼" Dot cases, dies for Pacific, components beautiful outfit, $228.00. John W. Waggoner, Thompsontown, Penna.

$1.50 SPRINGFIELD 30-06 RIFLE BARRELS. Second-hand. Limited supply. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia 6, Penna.

USED RIFLE SCABBARDS, BROWN COWHIDE leather. Military type. Complete with a ¾" x 40" and a ¾" x 30" straps. Length 30½". For carrying rifle on animal or vehicle. Excellent condition $3.50 each. Good condition $2.50 each. Used .45 caliber pistol holsters, brown leather with belt hook and button down flap. Condition good 65¢ each. Dept. R. Bolin's Gun Shop, 9 Grand Street, South Amboy, New Jersey. 12-46

WALTHERS 7.65 PPK, HOLSTER, EXCELLENT to new, $40.00. P.38, holster, extra magazine, excellent $35.00. Belgium 9mm. Hi-Power Browning automatic, 13 shot, excellent, $35.00. Same, good to very good, $30.00. Mauser 9.3 x 62 octagon ribbed barrel, 24", excellent, $35.00. T. J. Harman, 212 Front St., York, Penna.

.44 SPECIAL COLT NEW SERVICE TARGET revolver, 7½" barrel, Grade B. engraving, Ivory stocks, gold plated cylinders and trigger, very good condition, $80.00. Kenneth Gilman, 1330 Begole St., Flint, Michigan.

CASES—8 X 57, 6.5 X 57, 6.5 X 58, 6.5 DUTCH, 7.7 Jap, .256 Newton and others. Write for details. Leo Heimburger, Oroville, California.

CUSTOM MACHINE WORK. SPECIAL PARTS made, S.S. actions rebuilt, parts replaced. Detail drafting service. 22-250 Hi-number Springfield 440 Weaver custom stock needs rubbing otherwise rifle excellent, $140.00. P. M. Tabor, 639 W. LaVeta Avenue, Orange, California.

FOR BETTER SHOOTING—
CUTTS COMP

IN ALL GAUGES

12, 16, 20, 28 and .410

Cutts Comp for Shotguns with full set of Tubes for the 12 ga. gun.
Left to right: Comp with Spreader Tube; No. 680 Long Range No. 2; No. 690 Long Range No. 3; No. 705 Full Choke; No. 725 Modified Choke; No. 755 General Purpose Tube.

Orders are now being accepted for installing the Style A Cutts Comp on your shotgun. The Comp is available in all gauges: 12 ga. (6 Tubes), 16, 20, 28 and .410 gauges (Spreader, Modified and Full Choke Tubes only). Factory installations can be arranged through dealers or direct.

Style A is the improved mounting used on thousands of shotguns in the gunnery training program of the Army and Navy Air Forces combat crews.

Free Folder on Request

THE LYMAN GUN SIGHT CORP.

90 West St., Middlefield, Conn.

GERMAN
Handguns - Scopes - Rifles - Shotguns
Will buy or trade. Condition must be fine or better. Write full description.
Western Gun Exchange 441 S. Greenleaf Ave. Whittier, Calif.

.30—'06
HEADSPACE GAGES
Prompt shipment from stock
1.940-1.946-1.950" lengths—$5.00 each
1.942-1.944-1.948" lengths—$5.50 each
Postage and insurance 8¢ each
L. E. WILSON Cashmere, Wash.

ALL AVAILABLE MATERIAL FOR HUNTING—SKEET & TARGET SHOOTING
RELOADING EQUIPMENT
22 cal. bullets, all weights, @ $2.25. Gas checks, all sizes, @ $1.50. Jordan presses and dies, bullet moulds. Trades. Gun blueing, send guns for estimate or write.
PHILBRICK'S GUN SHOP
705 N. Elm Ave. Portsmouth, Va.

NEW! IMPROVED!
TRIPLE-ACTION
Lubricates - Prevents Rust
Cleans Metal - Bigger Value
Home Use - Sportsman - Mechanic
3 oz. 40c
FIENDOIL

NOW!

MEEPOS RELOADER

AVAILABLE AGAIN!

Orders filled within 10 days after receipt. Send stamp today for circular.

$30.00 COMPLETE
For One Caliber
(F. O. B. Los Angeles)

Fully Guaranteed. Improved Model. Prices subject to change without notice.

MEEPOS MACHINE SHOP
135 N. Western Ave. Los Angeles 4, Calif.

Announcing the NEW **ECHO** *Scope* MOUNT

PRICE $15.00

STURDY COMPACT DEPENDABLE

The Echo Mount...Destined to be the Favorite among America's Big Game Hunters...is simple but rugged in construction. There are no loose parts. It is lightweight...easy to carry in pack or scabbard...the base stays fastened to the receiver, the bracket to the scope.

The Echo Scope Mount, made especially for internally adjustable scopes, mounted low...is detachable for use of metallic sights and for safety in transportation...with full assurance that it will align accurately when you are ready to hunt. The attaching mechanism is a True Dovetail design, incorporating powerful recoil-absorbing double-locking lugs, easily clamped by handy knurled headscrews.

The Echo Scope Sight Mount is made to fit Specific Scopes and Rifles. The Mount Bracket fits these Scope Models: Lyman Alaskan, Weaver K-2.5 and ¾ inch, and Maxwell Smith G-88.

The Base is machined to the specific receiver contour of these rifles: Winchester M-70 and M-54, Remington M-30 and M-720, Springfield, Enfield, and Savage M-99.

Ask your Dealer or write to:

E. C. HERKNER COMPANY
Dept. A, LITTLETON, COLORADO

HEAD SPACE GAGES

.22 Caliber GO and NO-GO gages for target shooters. Nicely cased. $5.00 a set.

GUNSMITH SPECIAL
FIVE .22 CALIBER GAGES
.042—.044—.046—.048—.050
Complete with holder, $12.50

8MM (7.92) MAUSER
SET OF 3 GAGES, $20

30-06
SET OF 3, $16.50

H & M TOOL CO.
25608 Pickford Rd. Detroit 19, Michigan

WEAVER SCOPES

Weaver K2.5 coated lenses	$36.50
Weaver K4 coated lenses	44.00
Lyman Alaskan coated lenses	50.00
Weaver U Mounts	5.75
Stith Mounts	15.00
Stith QED Mounts for M70	17.50
Redfield Jr. Mounts for Weaver	10.50
Redfield Jr. Mounts for Alaskan	12.50

G & H Double Lever Mounts
Leather Dust Caps FREE with Each Scope
All Items Sent Prepaid

ACME SPORT EQUIPMENT
389 Champion St. Battle Creek, Mich.

WANTED Jap and Nazi Relics, Rifles, Pistols, Uniforms, Medals, Cartridges, Helmets, Bayonets, Swords. Also Antique and Modern Guns. One piece or a collection.
THE BELLPORT GUN SHOP, Bellport, N.Y., Dept. K.

2R LOVELL, BUILT ON REMINGTON HEPburn action. 26" barrel, ¾ muzzle, bluing excellent, test fired only, $65.00, components. J. R. Thompson, Burt, Iowa.

NEW WINCHESTER 270, REDFIELD MICROMeter sight, factory condition, $115.00. Arthur Jaquith Rumney, N. H.

.38 COLTS OMHB, PERFECT, PLASTIC GRIPS, box shells, $75.00. A. E. Patterson, 6810 28th N. W., Seattle 7, Washington.

.220 WILSON ARROW. MAUSER ACTION, altered bolt. Ackley safety, barrel turned from Winchester .220 blank. Alaskan Tilden mounts. Custom stock. 100 rounds ammunition, excellent $200.00. Inspection. E. G. Pope, Lubbock, Texas.

TWO EXCELLENT DWM LUGER PISTOLS, 3⅝" barrels .30 and 9mm. $85.00 each. Extra 8" 9mm. barrel, excellent $20.00. 32 shot magazine, excellent, $10.00. H. E. Phillips, 203 Elm Street, South Williamsport, Penna.

SPEER .224 CALIBER BULLETS $2.25-100. G. D. Hoover, 2227 Inyo Street, Fresno, California.

COLT ARMY AUTOMATIC 45, EXCELLENT IN and out, white thumb rest grips, Lawrence holster, $60.00. Binoculars, Sard 7 x 50, coated, rubber eye cups, individual focus, case, $150.00. Leroy Davis, 206 West State, Marshalltown, Iowa.

J. P. SAUER & SOHN DRILLING M30, 3 BARrel, two 12 gauge, lower barrel rifle 9.3 x 74mm. new, never fired, with carrying case, cleaning equipment & arsenal test sheet, $500.00. H. J. Gritzmacher, 1006 High Avenue, Sheboygan, Wisconsin.

$15.00 GOVERNMENT NEW STEEL CHAIR. Cushion seat and back for pilot houses or other purpose. Seven positions. Up, down, forward and back. Cost $50.00. Send for photo. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia 6, Penna.

P.38 WITH HOLSTER, VERY GOOD CONDITION, $38.00 M.O. only. Satisfaction or money refunded. D. W. Brink, 10 Esmond Place, Tenafly, N. J.

P.38, GOOD INSIDE, VERY GOOD OUTSIDE, black leather holster, extra clip, $50.00. Pat Swaney, Jr., Goodlettsville, Tennessee.

PISTOL AND RIFLE SHOOTERS: IT'S TIME to shoot for the sport of it again, so we are back on the job making your favorite KURVE-KUT TARGET PASTERS. Ask your dealer or write direct to us. Razorback Target Pasters, Fayetteville, Arkansas. 1-47

ARGUS SUPER GRADE 20X SPOTTING SCOPE, perfect $60.00; Weaver 440C, post, $24.00; Tilden mounts for model 54, $8.00; Ideal .38 Special tool, complete $6.50 all perfect. Bob Hard, Nokomis, Illinois.

.45 COLT NEW SERVICE REVOLVER, 5½" barrel, excellent condition, with holster, $45.00. 10 gauge 3½" Magnum shells $2.00 per box. Kenneth Gilman, 1330 Begole Street, Flint, Michigan.

33 VION SPOTTING SCOPE IN GOOD CONDITION with stand $35.00. E. H. Proudman, 1612 Adams Street, Hollywood, Florida.

.270 MAUSER, BEAUTIFUL SPORTER STOCK, Alaskan, perfect, $185.00. 30-06 Mauser, as above except K2.5 $170.00. Either, less scope $135.00. First M.O. Glenn Hughie, 280 Monument Avenue, S. E., Atlanta, Georgia.

WINCHESTER 52, STANDARD, FECKER 1½" 6X, O'Hare trunk, excellent to perfect, 1000 rounds, $165.00. Springfield sporter, above 1,500.000. 48WJS, perfect, $130.00. Keystone 16mm. Moviegraph projector, perfect, $18.00. Paul Fedory's, 3519 Snyder Avenue, Brooklyn 3, N. Y.

52 WINCHESTER HB CUSTOM STOCK, "B" trigger, extras, ammunition, new, $175.00. Want: Complete actions, good '92, 54, 70 Winchester, Mausers, etc. Primers. Jack Jenkins, 206 South Wilton Place, Los Angeles, Calif.

$35.00 GOVERNMENT USED TELESCOPES 30 power. Made by prominent manufacturer. Good condition. Also Government binoculars with cases. Special prices. Send for list. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia 6, Penna.

MARTINI SCHUETZEN, 8.15 X 46MM. EXCELlent, $100.00; Martini .22 R.F. target, very good except exterior specked with rust, $47.58; Steyr-Mannlicher 8 x 50mm. straight-pull carbine, very good, $37.50; Mauser 7.63mm. pistol, poor, $8.00. L. H. Sherman, Box 753, Buffalo, Wyoming.

GENUINE WAFFENFABRIK MAUSER SPORTER 20" semi-octagon barrel and stock. Action has been removed. With addition of Mauser action would re-build to nice sporter, $25.00. Remington pre-war 7.63 Mauser Military pistol cartridges 17 boxes, soft points in clips of 10, $2.50 box. Also, 200 rounds DWM Mauser 6.5 x 54 cartridges. George Pace, 3512 Cameron Mills Road, Alexandria, Virginia.

Announcing QUICK DETACHABLE HUNTING 'SCOPE MOUNTS

LAWSON'S

THE MOUNTS YOU HUNTERS WERE LOOKING AND WAITING FOR

★

WHEN WE SAY QUICK DETACHABLE WE MEAN "QUICK DETACHABLE"

★

USED IN CONJUNCTION WITH LYMAN SERIES 48

★

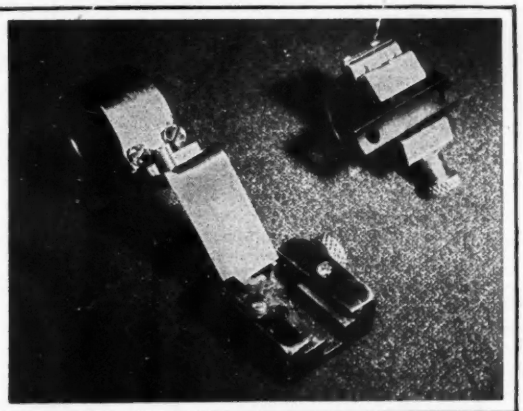
CONSTRUCTED WITH LOCKING ADJUSTMENTS

★

C. H. LAWSON

89 Myrtle Ave. Edgewater, N. J.

More Details Next Month



4 FINE PERFECT ANCIENT INDIAN ARROWheads, $1.00. Ancient stone tomahawk, $1.00. 4 tiny perfect bird arrowheads, $1.00. Large flint knife blade $1.00. Large spearhead $1.00. Free list. Lear's Box 569, Galveston, Texas.

BEAUTIFUL GERMAN "GREIFELT" 16 GAUGE double, 28½ barrels, ejectors, oil finished stock and forearm, nicely checkered, stock 14 x 1-9/16 x 2¼, perfect $150.00. P. R. Lilly, Valdosta, Georgia.

FECKER 10 X 1½" EXCELLENT $75.00. Mauser automatic good $45.00. Jap Nambu model 94, holster & two clips, excellent $35.00. Richard B. Amrine, R5, Marysville, Ohio.

MARLIN .38-40 REPEATER, GOOD. PEEP, shells, $27.50; Czech 8mm. rifle, good $27.50; Remington 511, perfect, $20.00; Czech .32 auto. good, holster, clip, $22.50; Mauser .32 auto, good, holster, $20.00. Ralph Drake, Osborne, Kansas.

.22 MAUSER TARGET RIFLE, EXCELLENT, barrel and action only, no clip, $40.00. Zeiss Dienstglas, Featherweight, 6 x 30, I.F., Mill scale, excellent optics, slight case wear, $60.00. French Army revolver, v.g., $20.00. Excellent 8mm. issue Mauser, barrel and action only, $30.00. Want Savage 23D, Weaver 440. Hervey Bates, 1300 Wisconsin, Pittsburgh 16, Penna.

1940 LUGER 9MM. PISTOL 4" BARREL EXCELlent $52.00. C. Buffmyre, 348 South Buckeye, Wooster, Ohio.

EXCELLENT, ALMOST PERFECT, WALTHER P.38, $50.00. Clyde Carrigan, 272 Corbin Street, Concord, No. Car.

$1.00 GOVERNMENT METAL PACK CARRIER frame for mule or horse. Cost $20.00. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia 6, Penna.

GENUINE WALTHER .22 L.R. AUTOMATIC OR single shot, 24" barrel, beautiful bluing, sling, excellent $125.00. Winchester 57 sporter, Lyman 438, Micro. mounts, sling, slight use out, excellent in, $76.50. OIGEE 6x scope, 2¾" objective, 15" long, 1¼" eyepiece, q.d. mounts, attached Mauser 8mm. sporter, 24" commercial barrel, scope perfect, rifle good $125.00. Scope alone $85.00. Winchester 75 sporter, 29S Weaver (NEW) Redfield rear, v.g. $79.50. EM-GE Zella-Mehlis German Air rifle, 39½" long, 16" barrel, 4½mm. (177 cal), powerful, accurate, perfect, $49.50. Walther 16ga. action (only) in white, forend match (NEW) $39.50. 200 Swiss & Dick assorted sizes gunsmith files 75¢ to $2.50 each. Walther NEW three barrel stock $35.00. Mauser Commercial, NEW action 24" 8mm. barrel, satin blued, ramp $69.50. Same in white $60.00. German Navy 7.65mm. Luger by Kreighoff, v.g. 1936, 3¾" barrel, $75.00. Mauser 7.63mm. 5½" barrel, perfect out, good in, $48.50. LISTING 25 shotguns, 50 rifles, scopes, binoculars, pistols (stamp please). Want Foreign O&U rifles, shotguns, double rifles, high grade bolt actions. H. C. Osborn, Box 1267, San Antonio, Texas.

BINOCULARS, NEW 10 X 50, HENSOLDT WETZlar, Lightweight Alpine, Dialyt, case, $175.00; another excellent $150.00; Henry 44 R.F. fair $20.00; Pacific-Ballard 40-63 D.S.T. Schuetzen, stock, v.g. $40.00; ten cans 4759, $8.50; five cans each lot 4227, 4320, 4350, $7.50; rifle cartridges, twenty 9mm. Mauser S/P $3.00; 100 .351 Winchester $9.00; 26.401 Winchester $2.50; fifty 43 Egyptian blanks, $4.00; sixty obsolete 32-40 Remington, $6.00; pistol cartridges, fifty, .450 Webley, $2.50; 140 .45 Webley, $7.00; 175 7.63 Mauser-Kleanbore S/P $12.00; eighty .30 Luger, $4.00; Winchester 1897 solid frame riot, Cutts with skeet, 740 680 tubes, sling, barrel length legal, ten boxes skeet loads v.g. splendid outfit, $65.00. J. W. Varner, P.O. Box 281, Scranton 1, Penna.

Shooters' Supplies

Flaig's

"on the hill"

Lyman Alaskan Scopes	$50.00
Weaver K.2.5	34.50
Weaver K.4, coated lens	44.00
Lyman 48, Mauser, 98 Krag	11.00
Lyman 48, Spr., Rem., Win. 70	11.50
Redfield 102, all numbers	5.75
Redfield 70	8.50
Redfield Jr. mounts 330-440	10.75
For Lyman Alaskan scope	12.75
For K.2.5 Weaver scope	14.75
#14 Mitchell Shooting Glasses, gold (with brow rest)	11.50
#11 Mitchell Shooting Glasses, white metal frame	7.50
10X Imperial Trap-Skeet Coats	8.00
10X Imperial Shooting Coats	11.00
10X Aristocrat Shooting Coats	8.50
Ammo. per 100 45 C.A. late	5.00
30.06 M.C. 150 or 172 gr.	6.00
25-35 Super X S.P. or Rem.	8.00
30 Rem. or 32 Rem. S.P.	8.25
30-30 Win. S.P. 170 gr.	8.25
22 Remington auto, 500 lots	6.25
45 C.A. barrels, new	4.00
Mauser 98 barrels, v.g. 24"	5.00
Mauser 98 rec., stripped	7.60
Mauser 98 bolts, stripped	6.00
Mauser 98 issue stock, 24" type	3.00
Enf. issue stocks, complete	3.00
Enfield bolts, stripped	4.00
Enfield extractors, new	1.50
Enfield ejectors	.75
Springfield issue stocks, new	3.00
Spr. milled tr. guards, stripped	3.00
Spr. front sights, complete	1.00
Mershon or Pachmayr Recoil pads	3.00

PARTS LIST FREE

"Serving only Sportsmen"

Flaig's

MILLVALE PENNSYLVANIA

Shot Shell Wads

IMMEDIATE DELIVERY FROM STOCK

12, 16 and 20 Ga. Price Per Thousand Nitro—.135" thick for over powder—$1.00. ⅜" fiber $5.00. B for over shot—$1.00. ¼" Laminated Fiber or ¼" Felt—$3.50

Alcan Paper Co. P. O. Box 134 Edwardsville, Illinois

New Designs in

FRANZITE GRIPS

Modernize YOUR GUN! Improve YOUR SCORE!

Most durable grips made. Positively unbreakable! For Colt, Smith & Wesson, Hi-Standard, Ortgies, Luger and Mausers in a wide choice of beautiful designs in ivory, pearl, walnut, onyx, etc. Low prices. FREE CATALOG. Dealers Wanted.

Sports Inc., Mfrs., 5501 Broadway, Dept. A-6, Chicago 40, Ill.

G 88 SCOPES

IMMEDIATE DELIVERY on these fine telescopic sights. 2½ and 4½ power, hard coated lenses, weatherproof windage and elevation click adjustments, other outstanding features. Choice of reticules.

Narrow or wide tapered post, cross wires, tapered post and cross wire $50

Tapered post and dot $55

WEAVER K-2.5 SCOPES $34.50
(with coated lenses) 38.50
WEAVER K-4 SCOPES $44.00

SCOPE MOUNTS

Griffin & Howe	$25.00
Redfield Jr.	from $10.75 to $14.75
Stith Q.E.D.	from $12.00 to $17.50
Type U Weaver	$5.75
King-Pike	$17.50

Installation charge quoted on request.

CUTTS COMPENSATORS $18.50
(with choice of any two tubes)
Additional tubes, each 3.00
Installation on plain or matted-ribbed barrels 5.00
Installation on ventilated ribbed barrels 6.00

POLY CHOKES (installed) $14.95

CUSTOM GUN STOCKS

Our craftsmen are experts in the custom designing and making of fine gun stocks, and in refinishing and rebuilding. Large selection of walnut, maple and other woods to choose from. Prices quoted on request.

KERR'S

9584 Wilshire Blvd., Beverly Hills, California

Everything for the Sportsman

BLACK POWDER For Muzzle Loaders. FFg, US Army-Western. Recent surplus. Top grade of course. Drum, 25 lbs., $9.50, FOB, by freight. Miller Bedford.

New London, Ohio. Good Wholesale price to dealers.

Something new for reloaders. Our No. 15 melting pot, the quickest melting furnace made. Melts up to 15 lbs. metal in 10 minutes. Equipped with patented Jet Bunsen Burner with shut-off valve and pilot light. Shipping weight 19 lbs. Price, $11.00.

AVAILABLE

Smith & Wesson U. S. Army Model 45 with 5½ inch barrel, blued, new..... $51.70
S. & W. Military & Police in 2, 4, 5, or 6 inch barrel, Magna stocks, blued..... $45.50
Ask to be put on our waiting list for the new K.22 or K.38 Masterpiece as shown above. New refinements and features. Price.. $52.25
Ask for special order blank giving specifications of the .357 Smith & Wesson Magnum. Delivery scheduled for late Summer, or Fall.

Pacific Powder Scales, with weight..... $7.00
DuPont Powders, per 1-lb. canister.... 1.60
Complete Guide to Handloading by Sharpe..... 7.50
New Savage 23-D Hornet, Weaver 440.. 86.85
New Savage 219 Hornet, Weaver 440... 59.60
High Standard HD 6¾ or 4½ in..... 49.50

SCOPE SIGHTS

Weaver K2.5, coated Optics.....$38.50
Weaver K4, coated optics..... 44.00
Weaver 440S, cross wire or post..... 35.20
Weaver 1X for shot-gun or rifle..... 22.60
Lyman Alaskan All Weather..... 50.00
Noske 2½ or 4 power..... 54.00
Expert Scope Mounting. Bolt altered.. 7.50
Fecker 1⅛ Target Scope in 8 or 10X... 60.00
Fecker 1½ Scope in 10 or 12.5X..... 85.00
Litschert 1½, in 10, 20, or 24X..... 85.00
Unertl 14X, 1¼ inch..... 66.50

SHOOTING GLASSES

We have the MITCHELL SHOOTING GLASSES. Finest made. Green tint, filtering out Ultra Violet and Infra-Red rays, leaving the eyes cool and relaxed.
With Brow Rest and White Metal Frame. $7.60
With Brow Rest and 14K Gold Frames... 11.60

SCOPE MOUNTS

NEW — AVAILABLE — The NEW KING-PIKE MOUNT for all scopes and rifles. Simple, easy to install, quick-detachable. You will like this mount. Priced at..... $17.50
G & H QD,.. $25.00. Redfield Jr..... 10.75
Stith Install-It-Yourself Mounts..... 15.00
Tilden Safety for Model 70..... 2.50

SIGHTS

Lyman 48 for most rifles, with disc.... $11.50
Redfield 70.. $8.50. 102K for Krag.. 5.75
Lyman 1A for Win. 94, 53 & 55..... 4.50
Lyman 2A for Models 8 and 81..... 5.00
Lyman 17A Front Sights with Inserts... 2.50

We have a small amount of .22 caliber match ammunition, some .22 caliber rifles, shot-guns and big game rifles. Things are beginning to come in. Ask for our up-to-date list.

GOPHER SHOOTER'S SUPPLY

SPORTING GOODS WHOLESALE & RETAIL

FARIBAULT MINNESOTA

RELOADERS—Now Available!

LIFE-TYME CARTRIDGE DIES

The Indestructible Die of Tungsten Carbide
Unconditionally Guaranteed for 200,000 rounds!

• Cleans • Resizes • Polishes
• Eliminates Case Cleaning

Immediate Delivery In:
.32 S & W .38 Special .38 Super .357 Magnum
.44 Special .45 Auto Rim .45 A. C. P.

Other Calibers on Special Order. Dies fit Pacific and Universal Loading Tools. $18.50 Postpaid

We carry a complete line of Reloaders Supplies and Shooting Equipment.

Many Items Both New and Used — Big Catalog 25c

Sport Supply of California

POST OFFICE BOX 396 R MONTROSE, CALIFORNIA

SIERRA GAS CHECKS

8 mm., .32, .30, .270, .25, .22 Caliber

Precision made of finest copper.

UNLIMITED QUANTITIES AVAILABLE

Liberal discount to dealers

$1.75 PER THOUSAND POSTPAID

If your dealer cannot supply you send his name with your order.

Harris Machine Co.

402 W. BEVERLY BLVD. • WHITTIER, CALIF.

GUN BOOKS
OF LASTING MERIT

STANDARD HUNTINGTON
W. VA.

ASK FOR CATALOG

MAGNUM 3" 12 GA. L. C. SMITH, IDEAL grade 32 F.C. barrels—automatic ejectors, excellent, 155 rounds, 3" Magnum shells, factory loads, $150.00. Manning Kilton, 1602 Alabama Avenue, Sheboygan, Wisc.

.455 WEBLEY REVOLVER, V.G. TO EXCELlent, canvas case, 20 rounds ammunition, .32 Italian automatic, prewar, bore pitted but serviceable, outside fair to good, 3 clips, leather holster, 25 rounds ammunition, first $56.00 M.O. takes both. Mummert, 616 W. 7th, Fort Worth, Texas.

8MM MAUSER, CAST BULLET $3.50 PER 20. 8mm Lobell issue 15¢ round. Free clip, .303 British issue 8¢ round. Wanted Mauser actions. E. Burns, 63 Uncatena Avenue, Worcester 6, Mass.

.357 S&W 8⅜" BARREL, KING SIGHTS, EXcellent, with 9 boxes ammunition $140.00. .38 Colt OM HB, perfect, extra thumb rest grips, 4 boxes ammunition $80.00. Life Member. J. D. Marks, 77 Fairview, Stamford, Conn.

WINCHESTER 75 SPORTER, VERY GOOD, 29S scope, T mount, 57E Lyman, extra clip, sling, $54.00. Elmer Iverson, Rt. #4, Grinnell, Iowa.

MII REMINGTON, 12, 30" FULL, 26" I. CYLINder, cowhide case, excellent $115.00. M12 Winchester, 16, skeet model, rib, Weaver choke, tubes, v.g. $95.00. M97 Winchester, 12, Weaver, good $52.50. P.38, 9mm. excellent $50.00. 9mm. Luger, v.g. $50.00. H&R, .32 and .38, good, $15.00 each. Cole Younger's personal Colt, name engraved, genuine ivory grips, good condition, museum piece, $75.00. J. F. Clabrough, London, 10 ga. beautifully engraved, collectors, v.g. condition, $75.00. 3000 L. rifles and 1000 primers, 1½, Western, $35.00. Pointer grips, $4.50 up. Write your wants. H. F. Schulz, El Reno, Oklahoma. Life Member.

ZEISS 4X ZIELVIER (FEATHERWEIGHT), PERfect in, excellent out, drilled for G&H mounts, $145.00. Bisley Colt .38 Special new 5½" barrel, perfect in, excellent out, Stag grips, $65.00. F. A. Jett, YMCA, Bremerton, Washington.

COLT .32 AUTOMATIC, NICKEL, PEARL stocks, extra walnut stocks, very good except few minor nicks outside, $30.00 or best offer. R. H. Lindsay, Holmdel, N. J.

COLLECTORS AND MUZZLE SHOOTERS WILL find it worth their while to call and look over my huge stock, all in splendid condition. Prices not low but at least fair. Open daily and Sunday. Nine miles from N. Y. City. House of Guns, 34 Alpine Place, Arlington, N. J. 10-46

BOOKS FOR SALE—MODERN GUNSMITH—Howe, $13.00. Firearms of Confederacy, $11.00. Muzzle Flashes, $13.50. Pistols & Revolvers $10.00. Gunnermans Gold $6.50. Bullets Flight, $5.00. Muzzle Loading Rifle, $6.50. Complete Guide Handloading, $6.50. Ammunition, $5.00. Sharps Rifle, $3.00. Ralph Plant, Florence, Colorado.

J. NICKLAS RIGA 16-30 IMP. CYL. DOUBLE triggers, plain extractors. Weight 5 lb., 7½ oz., action relief engraved, grip & forend checkered and carved, v.g. to excellent out & excellent in $465.00. Belgian Browning auto 16-30 rib, #4 grade new & perfect $295.00. Winchester 70, .257 Magnum, Weaver 440, cases Pacific dies, excellent $195.00. Savage auto 12-26 imp. cyl. military finish, excellent $69.75. Winchester model 12-12 ga. new Weaver choke, v.g. $63.50. Springfield 30-06 issue #373484 v.g. $45.00. British Enfield issue .303 v.g. out, excellent in, $35.00. Mauser 98-8mm v.g. $35.00. Luger 9mm. 4", good out, excellent in, $32.00. Same v.g. out, perfect in, $45.00. P.38, v.g. out, excellent in, with holster, $45.00. Springfield 30-06 barrel by Eric Johnson, ramp sight, excellent to perfect, $30.00. Enfield barrels, v.g. out, excellent in, $10.00. Springfield 30-06 barrels, used $10.00, new $15.00. Mauser 98 actions $25.00. Steyr 6.5 Mannlicher actions $15.00. Herman Treptow, Milltown, N. J.

RIFLE SCOPES, WEAVER K2.5 K4, LYMAN Alaskan, Redfield Jr. mounts for above scopes, new S&W .38 Special Police revolvers, B&M Handbooks, powder measures scope mounting, Redfield series 70, receiver sights, rebluing, Bishop stocks, Nydar shotgun sights. Above articles at standard prices. Helmericks Gun Shop, Montrose, Colorado.

COLT SA .38-40, 5½" BARREL, EXCELLENT, 100 cartridges $42.00. Colt model 1900 .38 auto, fair, 125 cartridges $38.00. Krag Sporter, 20" barrel, fair $25.00. Winchester low-wall 32-20, Lyman rear, poor $15.00. Stevens model 35 target pistol, good $18.00. H&R .32 Premier, 4" barrel, good $10.00. J. C. Fritz, 22 Monroe, Elgin, Illinois.

.45 SERVICE AUTOMATIC, GOOD PLUS, $40.00. 7.65 Browning excellent $25.00. 9mm. Radom automatic, holster, good $27.00. Excellent 9mm. Lugers $40.00. Trade new P.38 fine holster extra magazine. Want 12 Remington automatic excellent 28 full. D. B. Conley, Swampton, Kentucky.

SPRINGFIELD SPORTER, HIGH NUMBER, star gauged, Lyman 48 and Pacific ramp, sling. Excellent in, very good out, $95.00. Hoyt Holbrook, 1502 Monitor Road, San Diego 10, Calif.

DOUBLE BARREL RIFLE 8 X 57JR UCHSENmacher, Berlin, 22" barrels, elaborately engraved action, engraved cartridge trap in stock, Buffalo horn triggerguard, set triggers, British leaves, Circassian cheekpiece, perfect $350.00. Double barrel rifle 8 x 57JR with 16 gauge shot barrel underneath, Krupp Prima steel 24" barrels, elaborately engraved action with deer and moose, seven animals and woodland scenes, engraved barrels embedded in action at breech. Buffalo horn triggerguard, Circassian with cheekpiece, indicators, perfect, $350.00. Both above not war souvenirs. Genuine Walther AC assembly, military 9mm parabellum. Don't confuse with other military P.38's Excellent $55.00. George Pace, 3512 Cameron Mills Road, Alexandria, Virginia.

WINCHESTER H.S. IMPROVED 2R LOVELL, high comb P.G. stock, full fore-end, draw bolt through stock. Medium heavy, round, 24" barrel, single set trigger, Weaver 29S with Litschert 6 power conversion. T mount, 30 cases, beautiful blue job, bore good. $80.00. A. T. Dunham, 6935A Raymond, University City, Missouri.

BELGIUM 14 SHOT 9MM. AUTOMATIC WITH shoulder holster, good, $50.00. Savage 23 25-20 excellent $35.00. 98 Mauser action, no stampings excellent $25.00. Douglas Rudy, Rt. #2, Grand Island, Nebr.

ABESSER & MERKEL, OVER & UNDER, 12 GA. 30" full, solid rib, Miller selective single trigger, heavily engraved side plates, straight grip, 1½ x 2½ x 14, very good condition, $450.00. Frank Pugliese, 1757 South Broad St., Trenton 10, N. J.

.220 WEATHERBY ROCKET, MAUSER ACTION, Winchester 70 barrel, custom stock, Weaver 4X, perfect condition $195.00. Loading dies, bullets and components available. Weatherby's 8823 Long Beach Blvd., South Gate, California.

SCHMITT MODEL 12, .38 SP COMPLETE FOR large and small primers, $27.50. William Marble, 11 M:quon Rd., Conshohocken, Penna.

.32 CALIBER REMINGTON AUTO-LOADER, good, $60.00. Model 65 Winchester with Tang peep, excellent $65.00. St. Etienne M93 8mm. Lebel custom sporter beautiful Circassian walnut stock with cheekpiece excellent $70.00. Ross model 05 caliber .303 British sporter stock and recoil pad, very good, $40.00. Winchester low-wall caliber 32-20 action excellent $22.50. Combination rifle-shotgun with slings, cheekpiece 16 gauge and .38-55 caliber by H. Burgsmuller & Son, Kreiensen, Germany. Good steel barrels, $55.00. Match-Target Woodsman King sights and extras, excellent $85.00. Jap 7.7 cal. Carbine, very good $20.00. Model 97 12 gauge 26 mod. choke, very good $39.00. Model 30S Remington Express rifle caliber 35, a beauty, excellent, $96.50. Trades accepted. Money order please. Member NRA. Casey's Gun Shop, 220 North Beaver, Flagstaff, Arizona.

SAVAGE SINGLE HORNET XLNT, $30.00. WINchester 25-20 Repeater fair, $25.00. Marlin 16 gauge, Repeater, good $37.00. Colt .44 S&W Russian 7" good $40.00. 98 Mauser 8mm. Otto Bock scope, high mount, fair $85.00. Mauser Semi-auto military new, no stock, $45.00. Want Remington Derringer, long Krag, Browning 12 or 16 shotguns, .25 Colt auto., .32 Colt auto. Irl Atkinson, 434 35th Ave., South, Seattle 44, Washington.

M70 HORNET, 330 WEAVER, STITH MOUNT, Lee Dot, 250 cartridges, excellent, $155.00. Examination privilege. Armour Griggs, Columbus Junction, Iowa.

LUGER PARTS, COMPLETE LINE OF NEW, German, un-numbered, factory blued parts for new model Lugers. Prices on request. W. Luft, 898 Grandon Ave., Columbus, Ohio.

NEWTON SERIAL #2674 CALIBER .35 CUSTOM stocked q.d. sling, DST, K2.5 scope, also have 48 Lyman and opens, recoil pad, 120 factory 250 grain loads excellent. Beautiful Big Game rifle $200.00. Winchester 94 carbine 30-30 fired less than 2 boxes, excellent, 100 factory loads, $55.00. Winchester model 12 trap grade, custom reblued and finished, looks like new, excellent 2 boxes shells, $90.00. Winchester 65 caliber .218 Bee K2.5 with 6X Litschert special support for front of scope. Excellent except minor scratches on forearm, 100 factory loads, very accurate, $135.00. Kar. 98 Mauser 30" snipers gun, front of stock cut otherwise excellent throughout, 7.92mm. $40.00. Money order please. Lowell E. Wright, Onarga, Illinois.

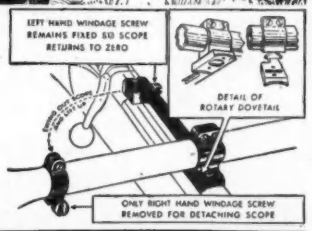
RIFLE POWDERS #3031, 4198, 4806, 4740, 25, $1.40 per lb., repacked. B. E. Hodgdon, Merriam, Kansas.

FOR RENT: MOULDS, DIES, ETC., STATE caliber. Trade various cases for moulds. H. Romness, Zumbrota, Minnesota.

COLLECTOR OF MILITARY WEAPONS, medals, insignia and other relics wishes to trade with other collectors. Have some German issue World War II bayonets, with scabbard and frog $3.50, with scabbard only $3.00, without scabbard $1.75. Robert F. Rubendunst, 2977 Lischer Avenue, Cincinnati 11, Ohio.

JUNIOR
Scope Mount

Now made for the new Norman-Ford TEXAN scope. This rugged, accurate scope mount can't slip—stays in place even when carried in saddle scabbard, and retains its accuracy under field conditions. Production is growing rapidly. Your dealer should have them soon—along with famous Redfield Micrometer Receiver Sights.


LEFT HAND WINDAGE SCREW REMAINS FIXED SO SCOPE RETURNS TO ZERO
DETAIL OF ROTARY DOVETAIL
ONLY RIGHT HAND WINDAGE SCREW REMOVED FOR DETACHING SCOPE

REDFIELD GUNSIGHT COMPANY
3315 GILPIN STREET • DENVER, COLORADO

"SPORTSMAN"
STOCK BLANKS
Semi-Inleted
MAUSER - ENFIELD - SPRINGFIELD - KRAG

$6.75 DELIVERED ANYWHERE
THE SPORTSMAN SHOP
GREELEY, COLORADO

A practical guide to the study of ammunition

ELEMENTS OF AMMUNITION

By Major Theodore C. Ohart
Ordnance Department, Army of the United States

The first technical handbook on the general subject of ammunition. All those whose work or interests lie in the field of ammunition and arms will find this book an invaluable basic tool. It describes clearly and simply the various phases of ammunition design and development, covering all types, including the main categories of small arms, artillery, aircraft and rocket ammunition. The author has drawn freely from such source material as official training manuals, technical bulletins, the mimeographed textbook used in short training courses for reserve officers, and both his and his associates' experience.

CONTENTS: Introduction; Military Explosives; Primers, Detonators, and Tracers; Small-Arms Ammunition; Artillery Projectiles; Artillery; Fuzes and Boosters; Artillery Complete Rounds; Bombs; Bomb Fuzes; Pyrotechnic Ammunition; Rockets; Miscellaneous Ammunition; Ammunition Packing, Index.

412 Pages Illustrated $6.00

ON APPROVAL COUPON

JOHN WILEY & SONS, INC.
440 Fourth Ave., New York 16, N. Y.

Please send me a copy of Ohart's ELEMENTS OF AMMUNITION on ten days' approval. At the end of that time, if I decide to keep the book, I will remit $6.00 plus postage; otherwise I will return the book postpaid. AR-8-46

Name.....
Address.....
City.....State.....
Employed by.....

This approval offer not valid outside U. S. and Canada

SCOPE ATTACHMENTS

#W-6 Attachment illustrated above on K2.5 Weaver scope, 6 power, 1¼" objective (INSTALL IT YOURSELF). Price $18.50.

#A-6 Attachment illustrated above on Lyman Alaskan scope, 6 power, 1¼" objective (INSTALL IT YOURSELF). Price $20.00.

#200 Attachment for Weaver 330, 440, and 29S scopes, 6X and 8X, 1¼" objective. Scopes must be sent in for installation. Price complete $17.50.

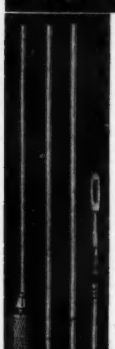
#850 Attachment for Weaver 29S scope 6X, ⅞" objective. Scope must be sent in for installation. Price complete $9.50.

Hard Coated Lens Used in All Attachments

R. A. LITSCHERT

Winchester Indiana

NOW! ALUMINUM GUN CLEANING RODS



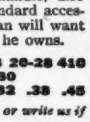
by GUNSLICK

A beautiful Aluminum rod in 3 sections with knurled handle. Sturdy, yet lightweight and easy to use. Has swivel handle, also universal tips for standard accessories. Every sportman will want one for each firearm he owns.

Shotgun Sizes: 12-16 20-28 410
Rifle Sizes: .22 .30
Pistol Sizes: .22 .32 .38 .45

See them at your Dealer or write us if he doesn't carry stock.

Get "Tips to Shooters"! Written by Col. Whelen for Shotgun, Rifle and Pistol Shooters. Enclose a GUNSLICK Carton Top or 10c to cover mailing.



OUTERS LABORATORIES
Dept. AR-8 ONALASKA, WIS.

SUPERIOR TRIGGERS

We now have them, without trigger guard safeties, in stock for immediate shipment. Clean crisp pull; no back slap; adjustable for creep and weight of pull; easy to install; remove old trigger, replace with new one; $15.00. Bolt converted to speed lock, $5.00; send complete bolt assembly.

Quick Detachable Mounts

Replace with absolute accuracy; places scope in lowest position; light weight; compact; no complicated parts. For scopes with internal adjustments, $12.50 to $17.50.

Super Stock Finish

—and filler. A beautiful, tough, oil type finish. Prevents warping by sealing out moisture and oil. Less than half the time required. Finish $1.50, Filler $1.50, both for $2.50.

Wholesale prices to dealers and gun shops.

COMPLETE CUSTOM GUN BUILDING

MASHBURN ARMS CO.
1220 N. Blackwelder St., Okla. City 6, Okla.

NYLON

NYLON
THE PERFECT CROSS HAIR

Unsurpassed for resistance to heat, cold & dampness. Excellent sharpness & opacity.

EXTREME SHOCK STRENGTH

Diameters to your specifications. Installed in hunting and target scopes..... $6.00
With double horizontal hairs for increased elevation range in hunting scopes..... 8.50

THIE-WEN CO.
Snyder Rd. Springville, New York

GUN REPAIR

•L. C. SMITH •FULTON •HUNTER

ABOVE MAKES repaired by experienced craftsmen—prompt handling and delivery. Send your gun in for an estimate of the cost of repair.

THE L. C. SMITH GUN COMPANY, INC.
Division of The Marlin Firearms Co.
FULTON, NEW YORK

LEW SANDERSON & SONS

Makers of fine custom pistol stocks. Beautiful walnut. Name your pistols for folder and directions for ordering.

3075 N. Hickory Ridge Road
R. R. 4, Milford, Michigan

MERCURY GUNSHOP LOS ANGELES

Established Since 1919

SPRINGFIELD-ENFIELD-MAUSER

Rebarreled by Mauser expert for Cal. .30-'06—.270—7 m/m—.25-3000 Super—Hornet K. We test your actions by Modern Scientific Equipment and Prove-test your rifle after work is complete.

MERCURY GUNSHOP
5509 Virginia Avenue
Hollywood 38, Cal.

EXCELLENT KRAG NEW SPORTER STOCK, $50.00. Excellent .22 H&H pistol $22.00. Good 9mm. target Luger $45.00. Excellent .38 automatic $40.00. Excellent .45 automatic $45.00. Excellent custom .270 Enfield, remodeled action, scope, sling beautiful stock $190.00. Several excellent remodeled Enfields, Springfields, Mausers and other used guns. Write for prices. Will trade for cameras. Walter Giese, West Salem, Illinois.

PERFECT WINCHESTER 97 PUMP 12 GAUGE with Pachmayr recoil pad, $67.00. Excellent .22 Winchester model 63 with T mount for 330 scope, $60.00. Eugene Todryk, Beaver Dam, Wisconsin.

NEW MAUSER 30-06 WITH K2.5 SCOPE $160.00. Springfield sporter 330 scope, very good $130.00. E. H. Perkins, Life Member, 719 B. Street, Rock Springs, Wyoming.

MERKEL BROS. OVER & UNDER, 12, TWO sets barrels, 26" imp. and mod., 28" full & full, ventilated rib, vent. barrels, Miller selective single trigger, straight grip, 1½ x 2¼ x 14—7 lbs. Frank Pugliese, 1757 South Broad St., Trenton 10, N. J.

JAP NAMBU AUTO. PISTOL, PATTERN 14, issue holster, excellent excepting surface scratches, $90.00; 9mm. Radom P.35, excellent in, good out, $50.00; Walther P.38, very good $60.00; S&W Schofield .45, tinplated, fair $20.00; 10X shooting coat, size 48, excellent $8.00. M. E. Zubatkin, 324 Riverside, Lyndhurst, N. J.

NATIONAL MATCH 30-06 SPRINGFIELD 1,370,222 with carrying case, $80.00. Match Target Colt Woodsman $65.00, all very good to excellent. Member. Fred LaBreche, 103 Garden St., Pawtucket, R. I.

ITHACA PUMP, MODEL 37B, RIB, 16 GA. modified, perfect $80.00. Colt Woodsman, small 6" barrel, good, $50.00. .270 Winchester, Mauser action, stock and barrel by LeFever, cheekrest, Redfield mount, with 330 Weaver $150.00, without scope, $120.00. Perfect. C. L. Snyder, Frankfort, New York.

.38 COLT OFFICERS' MODEL, USED, GOOD condition, $47.50. Model 54 Winchester 30-06, bolt action, full bead and receiver sights, used, excellent condition, $65.00. Parker Bros. double barrel 12 gauge OV shotgun, used, excellent condition, $110.00. Robert Carey, Jr., Raymond-Commerce Bldg., Newark, New Jersey.

EXCELLENT M70 .375 MAGNUM, 7 BOXES ammunition, Weaver 330, B mounts, sling swivels, leather high comb, $180.00. Perfect M70 .375 Magnum, 7 boxes ammunition, sling, swivels, $150.00. Excellent M70, 30-06 Weaver 330, Jr. Redfield, 3 boxes ammunition, sling, swivels, leather high comb, $160.00. Perfect .375 S&W Magnum, 4¼", nickeled, belt, holster, ammunition, $155.00. Excellent .50-110 Winchester, 3 boxes ammunition, $75.00. Excellent Mossberg automatic, custom heavy barrel, 15X A-5 Winchester-Litschert scope, mounts, sling, swivels, $85.00. M11 Remington 12 gauge solid rib, Poly Choke, recoil pad, v.g. $85.00. L. C. Smith 16 ga. Ideal, double, v.g. $75.00. Roy E. Knight, Connersville, Indiana.

SPRINGFIELD .30 SPARE PARTS. WRITE FOR list. Emblems-Brassards, Pennants, Book Matches. George O. Wood, 124 Ontario St., Lynn, Mass.

MY PET GUNS—WINCHESTER M70, 30-06, 330 Weaver, both near perfect $140.00. Springfield 45-70 and 28 rounds EX $22.50. Colt .38 Special 4" and 200 rounds Keith Manstoppers, perfect $67.50. H&R .22-6" Target and 500 LR, perfect $45.00. First M.O.'s. H. H. Armstrong, 219 Sparks, State College, Penna.

WINCHESTER 70, .22 VARMINTER, VERY good $150.00. 2 sets dies (Pacific) 348 & .270 Newton. Want Winchester 75 target, 1 single shot D.S. C. H. Rothermel, Alburtis, Penna.

V. H. PARKER, 16, 28" FULL & MODIFIED, very good shape, $150.00. Frank Pugliese, 1757 South Broad Street, Trenton 10, N. J.

1894 WINCHESTER 38-55 RIFLE, TAKEDOWN custom pistol grip stock, octagonal barrel, full magazine, barrel good, otherwise very good $60.00. Walther P. P. .32 automatic, commercial finish, excellent in, very good out, holster $50.00. Another P.P. .32 military finish, excellent in, very good out, $40.00. Four military carbines fair or better at $20.00 each. Canadian Ross rifle 1905 .303, fair $20.00. 1898 Krag 30-40 carbine with ebony tip and peep sight 20 cartridges, fair in, good out, $27.50. P.38 9mm. very good, holster $40.00. Lee Metford 1894, MK2, caliber .303, excellent $42.50. R. J. Aley, Burr St., Fairfield, Conn.

COPPER GAS CHECK CUPS, CALIBERS .22, .25, .270, 7mm. .30, .32, 8mm., $1.00 per thousand postpaid. Money back guarantee. Warner & Son, 2512 Pleasant Valley, Altoona, Penna.

BAUSCH & LOMB 8 X 30, GOOD, $35.00. Mauser auto 8mm. good, $40.00. New P.38, perfect never fired, $50.00. 1917 S&W .45 holster, very good, $30.00. Italian carbine, 6.5, good, $15.00. Dr. O. V. Kingery, Frankfort, Indiana.

STEVENS WALNUT HILL #418 WITH REGULar and short stock, very good $28.00. O. Thiessen, 1246 Greystone Road, Baltimore 27, Maryland.

HORNET RIFLES WITH NEW BARRELS fitted to Winchester and Remington 45-70 actions, $40.00. .348 Winchester barrel new, fired once, $15.00. G. F. Fries, Chambersburg, Penna.

LATEST WINCHESTER 52 SER. 54346-B, Marksman stock, Redfield Olympic rear, Lyman 77 front, Lyman Super-Targetspot 10X scope. Gun and scope perfect in and out. Complete with sling, pad and keeper. Price $200.00 for all. Frank Warren, 502 So. 4th St., Grants Pass, Oregon.

MARLIN MODEL 39-A EXCELLENT PLUS, $39.00. High-Standard HD. Military 6¾ as new, $42.00. W. H. Rodenberg, New Rockford, No. Dak.

LIMITED SUPPLY—.25 ACP HANDLOADS 50 gr. lead bullet $1.50 per 50. .38 Special Handloads 158 gr. bullet $1.75 per 50. Custom reloads. Write for estimate. John C. Adams, 225½ Logan Avenue, Springfield, Illinois.

.30 DWM LUGER, EXCELLENT OUT, VERY good in, excellent German Officers holster, $60.00. Ross Speer, Jr., 2754 Bonifacio, Concord, California.

CHAS. DALY, DOUBLE, 12, DIAMOND QUAEity, 26" Krupp, Imp. & Modified, automatic ejector, straight grip, two triggers, 6¾ lbs. Beautiful Gun, $350.00. Frank Pugliese, 1757 South Broad St., Trenton 10, N. J.

COLT .22 AUTOMATIC 6½", GOOD, $35.00. Springfield 30-06 as issued, good, barrel poor, $25.00. J. W. Fassett, 71 Woodland Road, Madison, N. J.

CZECH MAUSER, V.G. IN, GOOD PLUS OUT, $35.00. Long Japanese Arisaka .256, good in, fair out, $14.00. Want Winchester M54 Hornet, Springfield M1, M2. Tong tools, dies, for 30-30, primers. Dunn Hanks, Versailles, Missouri.

WINCHESTER 52 HEAVY BARREL MARKSMAN stock Fecker 1½" 10X coated lens, both perfect $190.00. Jefferson Trader, Pocomoke City, Maryland.

COLT OFFICIAL POLICE .38 SPECIAL 6" PERfect $50.00; S&W .38 Special 4" perfect $45.00; accessories, H&R's and Hi-Standard. Lewis Ells, Alfred Station, N. Y.

.257 WEATHERBY MAGNUM, MODEL 70 WINchester, custom 3 groove GM 26" barrel equipped with Martin Alaskan 4X scope, G&H mount, exceptionally beautiful custom maple stock with ivory and ebony inlay work $435.00. Send for photograph. Weatherby's Custom Sporting Goods, 8823 Long Beach Blvd., South Gate, California.

A SCOOP. CANTON FLANNEL CLEANING patches 2½ x 2½ 1000 lots $1.75. 500 lots $1.00. Sling Tension Equalizer Co., R.R. 10, Box 230, Dayton 9, Ohio.

MAUSER .22 L.R. TARGET MODEL, SINGLE shot, unaltered, excellent, $75.00. 37 9mm. Luger, walnut grips, ammo. excellent $60.00. Want large rifle primers. W. L. Stambaugh, 1211 El Paso St., Plainview, Texas.

G. H. PARKER, 20, 28" FULL, STRAIGHT GRIP, Beavertail fore-end, drop 1½ x 2½ x 14, beautiful stock, very good condition, $200.00. Frank Pugliese, 1757 South Broad St., Trenton 10, N. J.

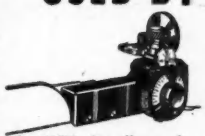
.45 7½ BARREL S.A.A. COLT, REBLUED, GOOD condition. Myers holster, Heiser belt, 13 boxes old F.A. shells $60.00. 1944 P.38 perfect in, good out, clip, holster $85.00. Haenal Air Pistol (D.R.P.) excellent, .22 and .177 barrels, wood case, pellets, $20.00. 30-40 Krag carbine as issued, Weaver 329 mounted, v.g. 80 Army, 20 Silvertips, $45.00. S.W. .38 Special, holster, box shells, excellent in, reblued out, $45.00. Orvin Dussia, 3423 Glenwood, Toledo, Ohio.

COLT .38 SUPER AUTOMATIC, EXCELLENT, 75 Kleanbores, $55.00. S&W M&P. .38 Special, 4", blue, excellent in, fair out, 40 Kleanbores, $35.00. Marlin hammer pump, 12-32 full, fair, 100 Super X, $40.00. Winchester 97 pump, solid frame, 12-30, full, fair, 100 Federal Hi-Power, $40.00. Remington, double hammerless, ejector, engraved, 12-30, full, modified, Damascus, collector's item, fair, 100 Federal Monark, $40.00. Stevens bolt, clip, repeater, 20-26 full, fair, 100 Ranger, $22.00. Hercules, single ejector, 16-28, full, very good, 50 Sureshot, $15.00. Iver Johnson, single ejector, 410-26, full, very good, 50 Federal, $15.00. F. A. Baker, Donnelly, Minnesota.

MODEL E, HI-STANDARD, EXCELLENT, EXcept some holster wear $70.00; Army .45 excellent out, fair in, $40.00; Remington-Hepburn, 44 x 2-6/10, excellent in, very good out, 30" barrel, $50.00; Springfield 45-70, good, $80.00; Swiss Vetterlie, good $8.00; Government rifle scabbards, fit most any sporting rifle, good condition, postpaid $3.50; Rifleman magazine 1942, 1943, $2.00 year. Colt Frontier, very good, with reloading outfit, 38-40, 4¾ barrel, $50.00. William Boggs, 35 West Longview Avenue, Columbus, Ohio.

VAVER DIAL MICROMETER SIGHTS *For All Rifles*

USED BY CHAMPIONS EVERYWHERE

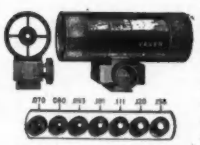


No. 5237—For all round receiver Winchester 52's

No. 37RM For the Remington Rangemaster

Vaver Dial Micrometer Sights improve marksmanship and give consistently higher scores under all types of shooting conditions. Engineered to meet the most exacting requirements, Vaver Receiver Sights offer the shooter absolute, accurate and rapid adjustments in either direction for both windage and elevation, without play or backlash, and will maintain accuracy for a lifetime. Write NOW for catalog giving full description and prices on Vaver Front and Receiver Sights and accessories for all types of rifles.

Series 38—For Light Hunting and Sporting Rifles



W-11-AT Front Sights—Quick detachable, telescope height

VAVER CORPORATION 2439 So. Kolin Ave., Chicago 23, Ill.

THE "WHITE LINE" **RECOIL ABSORBER**

3 Styles
3 Colors

$3.00 EACH

Look for the "White Line" None Equal at Any Price

MERSHON COMPANY, Inc.
Mfg. Div. A
GLENDALE 5 CALIFORNIA

"Dress up" YOUR FAVORITE GUN

Our REBLUING process will make your "shooting iron" look like new.

We specialize in the highest quality of RE-BLUING for any weapon.

Rifles, Shotguns and Handguns
Average Price $10.00

Write for full details

CUSTOM GUN DEPARTMENT
JOHNSON AUTOMATICS
Dept. A, Providence 1, R.I.

SIGHTS

RETAIL AND WHOLESALE

We believe that we have the largest and most complete stock of ALL MAKES of new and used sights & scopes in the U. S. Used sights in excellent or better condition taken in trade. Expert sight mounting and targeting. Fast and accurate service.

Dealers Inquiries invited.

WRITE US REGARDING YOUR SIGHT PROBLEMS.

THE ORIGINAL SIGHT-EXCHANGE
"Gun Sight Specialists"
P. O. Box J Paoli, Penna.

HUNTING and FISHING is a monthly magazine crammed full of hunting, fishing, camping, dog and boating stories and pictures, invaluable information about guns, fishing tackle, game law changes, best places to fish and hunt—countless ideas that will add more fun to your days afield.

SPECIAL TRIAL OFFER
Send 25c in stamps or coin and we will send you Hunting & Fishing for six months.

HUNTING & FISHING MAGAZINE
227 Sportsman's Building
Boston, Massachusetts

WORLD'S BEST KNIFE

HAND MADE AND HAND TEMPERED WITH SCABBARD. 4½" BLADE $8.00—6½" BLADE $10.00. MONEY REFUNDED PROMPTLY IF NOT SATISFIED.

EAGLE MFG. CO. Box 243 San Antonio, Texas

HENSHAW

The Original Trigger Shoe

Back in production again. A few models available now, more later. Order direct or through your dealer. Price $1.50.

HARVEY E. HENSHAW, Gunsmith
Shooters Supplies
818-820 Oakwood St. (21), Pitts'h, Pa.

ILLUSTRATED GUN CATALOG—50 cents

My latest illustrated catalog is now ready for mailing, listing several thousand items, from rare Wheelocks down to the modern Walther P-38. Everything from court swords to triangular bayonets. Profusely illustrated by my good friend Mr. Bert Yates, famed artist, which accounts for the excellent work. In addition to the drawings by Mr. Yates there are 20 pages of plates on Armor, Guns, Native Weapons, Shakos, Badges, Cannon, etc.—plus many fine photographs of stock on hand.

Bellport Gun Shop

THOMAS WORONIECKI
DEALER IN RARE GUNS
Dept. K, Bellport, L. I., N. Y.

MUZZLE LOADING NATIONAL MATCHES

WALTER CLINE RIFLE RANGE
FRIENDSHIP, INDIANA
Five Days—August 29, 30, 31—Sept. 1, 2

An Expanded Program—An Improved Range
Rifles—Flint and Percussion
Hand Guns—Single and Multiple Shot
Scatter Guns—Exhibition
Room on the Range for Tents, Trailers
Write "Pop" Neighbert, Friendship, if Local Accommodation in Homes Is Desired
Subscribe to MUZZLE BLASTS—Get All the News
See Program in Detail—Be Posted—$2.00 per Year
Sample Copy May Be Had for Fifteen (15¢) Cents

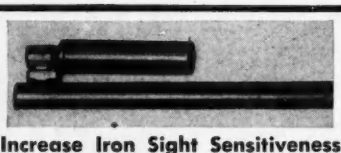
NATIONAL MUZZLE LOADING RIFLE ASSOCIATION
E. M. Farris, Sec'y — Portsmouth, Ohio

CUSTOM RIFLESMITHING

Varmint, Hunting & Match Rifles. Chambering in most popular calibers from 22 to 30-06. Custom stocks & scope mounts. IDEAL Triggers—the perfect trigger mechanism for the Winchester 52 & Remington 37.

ROY GRADLE
Life Member N.R.A.

205 W. Islay St., Santa Barbara, Cal.
15 years in the same location



Increase Iron Sight Sensitiveness 50% with the practical

SEMI-SCOPE

For Redfield, Lyman, Vaver Demountable Globe Sights

Price $15.00 includes tax.
Plus postage and insurance.
Send Money Order, or order C.O.D.
Write for your copy, new pamphlet—"SIGHTING SENSE"

E. W. WAGNER
749 Dover Place — St. Louis 11, Mo.

Before Gun Rust Starts use HOPPE'S No. 9

Don't let primer, powder, lead and metal fouling remain in your gun. Keep out moisture. Use Hoppe's No. 9 for thorough gun cleaning and rust protection. It will keep your gun like new. Gun dealers sell it or send us 10c for trial size. Valuable "Gun Cleaning Guide" FREE upon post card request.

FRANK A. HOPPE, INC.
2321 N. 8th St., Philadelphia 33, Pa.

SAVAGE MODEL 99EG, 250-3000 STITH mounted 330 Weaver new, $116.25. Savage model 99EG caliber .300 new $76.75. Winchester M24 16 x 26 cyl and mod. new $47.95. Savage model 99EG caliber .30-30 Redfield receiver sight, very good 4 boxes ammo. $60.00. Savage 23D Hornet peep very good $50.00. Francotte Martini Tang peep ¼ min. clicks Beavertail fore-end, good plus $70.00. Belding and Mull loading tool for .38 special and 30-06 good $15.00. Belding and Mull powder measure 2 charge tubes good $8.00. Ideal 30-06 De and recapper good $2.00. Sporting powders 3031, 4064, 4198, 4320, 4350, 4227, $1.60 lb. Gas checks .25, .30 and 8mm. $1.50 per 1000. 8 x 57 Mauser cases formed from once fired 30-06, unprimed 7¢ each. Merit sight discs $3.00, Master disc $4.00. Weaver K2.5 standard cross hair, coated lenses $38.50. Tri-Pak cleaning rods, jointed .22 to .27; .30 caliber and up: Pistol combination sets $1.25 each. Official N.R.A. Targets. Nydar shotgun sights, $27.45. Crow calls $1.50. Turkey calls $2.00. We have a fair supply of rifle and pistol ammunition in stock, write for list. Drybak Skeet Jackets limited supply $7.50. Johnston & Chapman Arms Co., 2914 North Avenue, Richmond 22, Virginia.

MIDGET CAR, $300.00. TRADE. PHOTO, DETAILS, 25¢. William Sheffer, Wingdale, N. Y.

S&W .38 SPECIAL M.P. 5" V.G. TO EXCELlent carved grips, first $55.00 takes. Davenport, P.O. Box 212, Brightwood Street, Springfield, Mass.

HANDLOADED 12 OR 20 GAUGE SHOT SHELLS, 10¢ each. Shotgun shells with rifled slugs for Deer hunting, 20¢ each. Red Dot shotgun powder, $1.90 lb. 23 lb. Keg, $41.90. Primed resized 12 or 20 gauge once fired empties, $2.50 per hundred. C. G. Spires, 401 West Diamond Lake Road, Minneapolis 9, Minn.

PRE-WAR COMMERCIAL OBERNDORF .22 Mauser single shot rifle, stock specially checkered, grip cap, white inlay, excellent $70.00. Assorted 2R Lovell components, factory adjusted Pacific dies, loaded cartridges, shell holder, pre-war Sisk bullets, G&H fired cases, primed 25-20 S.S. cases, 2400 powder, $25.00. Imported genuine cork helmet, 7¼, used little, excellent, $7.00. Rifleman complete, 1934 through 1945, $27.50. Hatcher's $7.50 Pistol Book, perfect $4.00. Russell Elder, Griffin, Georgia.

COLLECTORS SEND 3¢ STAMP FOR NEW LIST of rare W.W. II foreign military cartridges. William Piznak 411 E. 87th St., N. Y. City.

.22 VARMINTER ENFIELD SPORTER, HOOPLE barrel, Unertl 1⅛ 8X dies, bullets primers, privilege of inspection. Lester Hill, 605½ Buckhannon Avenue, Clarksburg, W. Va.

WE HAVE SIX ONLY BRAND NEW WINchester .22 long rifle barrels for the single shot musket. Musket #3 weight, round, 28" length. Excellent for Hornet, Bee and Lovell. $18.00 each. Lindahl Gun Company, Central City, Nebraska.

.220 SWIFT AND VARMINTER MAUSER sporters, new blocks dies, $135.00 each. Krag sporters, new ammo. micrometer, $75.00 each. Mauser 8mm. sporter, ammo. micrometer $75.00, new. E. Lanagan, Randsburg, Calif.

BROWNING AUTO, 12, 30", FULL, EXCELLENT, $80.00. Newhouse Bear trap, good $10.00. E. J. Salisbury, Cranberry Lake, N. Y. Member.

MOTORSCOOTER JUST OVERHAULED, painted, 40 m.p.h., very good shape, $165.00. Write for additional information. Tony Lederer, Hillsboro, Maryland.

MUZZLE GUN SUPPLIES: NIPPLES FOR rifles, shotguns, revolvers and muskets, 25¢ each or 5 for $1.00. Send old Nipple when possible. We carry new stock except in Musket, they are stock of about 1865. Amber flints for rifles and pistols, $1.25 per dozen. 1000 #11 percussion caps, $2.85 FOB. Black powder in F, FF and FFFG, 6¼ pound can $4.00. Comes by freight only. Percussion rifles, shotguns, handguns, write in your wants. Hickory ramrods, 65¢ to $1.25, big variety of sizes. 17A Lyman sights, $2.00. Winchester Vernier type $5.50. New .375 Buhmiller barrels for round ball, turn in 48"; with drum and nipple $16.00. These are round and unfinished outside, no breech plug or other accessories; 40" long, 1-3/16 O.D. Adjustable black powder measure with funnel $3.50. Nipple wrenches, rifle, pistol or musket, 75¢. New, laced leather pouches with shoulder strap $6.50. Round ball moulds with wood handles and sprue cutter, $5.50. Main spring vice, 75¢. Hacker Martin Kentucky type percussion pistols $37.50. E. M. Farris, 210 Chillicothe St., Portsmouth, Ohio. tf

LOADING TOOL .32 S&W WINCHESTER MAKE, good condition $5.00. Franzite grips .22 S&W excellent condition $4.50. Lyman 48 fit Savage 23D, good condition $9.00. 12 gauge loading outfit complete $10.00. .22 Horne loading dies fit Belding & Mull $5.00. Harold L. Lisenby, Vestal, N. Y.

BRAND NEW WEAVER 330 SCOPES. T MOUNTS, crosshairs. $24.95 Government surplus, K. Kahles H/4 x 60 scope, new, $63.00. Savage Hornet 23D Lyman 48Y sight, 50 shells, excellent, $69.00. K. T. Hansen, 128 Hillcrest Ave., Cranford, N. J.

95 SPORTER STOCK, CHEEKPIECE $10.00. 70, stock, new checkered $25.00, Model 12 stock, Jostam $10.00. Winchester A-5 scope excellent $30.00. Winchester 25-20 loading tool $5.00. Handmade P.38 holster $5.00. Carbine saddle scabbard $5.00. 40-60, loading tool, mould and 20 rounds as is $7.50. 30-30-30, ammo. $5.00. V2 Marble peep $5.00. Hansons Custom Loading, Edwardsville, Kansas.

CAST BULLETS, ANY RATIO DESIRED, .38-158 gr. conical, .38-145 gr. Wadcutter, .38-145 gr. conical $8.50 per 1000. .45-200 gr. semi-wadcutter, .45 conical $10.00 per 1000. All lubricated and sized, ready to use. Used clean .22 short copper cases 25¢ pound. Once fired .38 Special small primer cases, clean $5.00 per 1000. Reloads .38 Special full load or midrange $30.00 per 1000 or $1.50 box. Reloads .38 S&W price same. Write your needs. Frank Svec, 149 Oakdene Ave., Leonia, N. J.

WINCHESTER RIFLES, BRAND NEW MODEL 75, $48.75. New Harrington & Richardson rifle model 265, bolt action clip repeater $38.25. N. R. Rudolph's, Atchison, Kansas.

J. PURDY & SONS SHOTGUN, 20 GAUGE D.B. ejectors, 14½ stock length, 1½" at comb, 1⅞" heel, excellent Sir Joseph Whitworth's fluid steel barrels, right mod. left full, beautiful engraving, less than 6 lbs. First money order for $700.00 takes this gun. John Dietrich, Mossville, Illinois.

P.38 WITH HOLSTER V.G. $45.00. 9MM. LUGER 1940 v.g. $50.00. 9mm Luger 1920 v.g. $40.00. 6.35mm. Vesta auto, holster v.g. $12.00. 6.35mm. Elcid auto good $10.00. .38 M&P 6" v.g. fixed patridge sights 10 point grip $45.00. .38 M&P target 6" excellent $50.00. Model 121 Remington good $30.00. Model 511A Remington new $17.15. 30-30 Winchester full patch cartridges $1.46 box, soft points $1.68 box. C. H. Lawson, 89 Myrtle Ave., Edgewater, N. J.

TWO NICE OLD POWDER HORNS AND BAGS $20.00 and $25.00. Percussion hunting rifle, Penna. good $40.00. J. G. Dillin, Media, Penna.

CASES, STANDARD, WILDCAT, DOMESTIC, foreign, 8mm. .257, 25-06, 25 Krag, many others. Write for details. E. L. Jewett, Case Specialist, 511 N. Workman, San Fernando, California.

P.38, VERY GOOD TO EXCELLENT, EXTRA magazine, holster, $55.00. John Ryan, Louisa, Ky.

52 WINCHESTER, MYRTLE WOOD SPORT stock, perfect in, slightly marred out used very little, 200 cartridges, $140.00. Marlin 20 gauge pump, perfect in, slightly marred out, one hundred #6 shells, $60.00. Bisley model 38-40, perfect in, used out, $70.00. W. A. Hendry, Water Works 27, Waterloo, Iowa.

REDUCING COLLECTION: SELL 19 EXCELlent rifles, modern to black powder types, bolt action and fine SS. List for stamp. Howard Harris, Box 2, % P.O. Petersburg, Virginia.

WALTHER P.38 NEW, PERFECT, 40 SHELLS, $90.00. 50 cal. Remington Tyder, barrel and action good, $10.00. Carl Zeiss (Jena) Dienstglas, 6 x 30, lightweight, optically adjusted, very good, some finish wear, $70.00. Member N.R.A. Paul Snare, Holden, Missouri.

MANNLICHER-SCHOENAUR 8 X 60 MAGNUM sporter, very good, perfect inside $120.00. Mauser sporter, 8mm. double set triggers, ribbed barrel, good $75.00. 1903 issue rifle, excellent, $50.00. Perfect 1903-A3 $50.00. Winchester standard 52, speedlock, perfect bore, Lyman sights, $85.00. Mauser .32 pocket automatic, perfect $30.00. Very good Luger 9mm. $30.00. 45-70 black powder cartridges, $2.00 box. .303 British $1.55. Government saddle scabbards, finest leather, rifle, or carbine, $3.50. 1903 parts, used barrels, receivers, etc., list for stamp. Will accept trade offers. Reppert, Rt. #4, Norristown, Penna.

K-22 VERY GOOD, HONED ACTION, SKELETON hammer $45.00. Walther PPK 7.65 (32 auto) very good with 50 cartridges $45.00. Pope-Ballard-Schuetzen 32-40, very good, set trigger $40.00. H. W. Stone, Hillsdale, New Jersey.

VERY GOOD TO EXCELLENT L. C. SMITH, Field grade, 12 ga. 32" F&F, recoil pad, two sights and one case Super Speed Sixes $115.00. Gun fired less than 100 rounds. W. W. Kothmann, Brady, Texas.

LATE WINCHESTER DELUXE M63, 21" BARrel, coated 330S & in Stith Streamline mount with sheepskin case, all perfect $144.00. W. W. Kothmann, Brady, Texas.

SEVERAL UNUSUAL ITEMS FOR THE MILItary collector. Send for list. Vincent Gallagher, 1169 Flatbush Ave., Brooklyn, N. Y.

EXCELLENT MODEL 65 WINCHESTER 25-20 Weaver 29S scope 165 shells, $75.00. Bond tool practically new for .45 auto, .45 Colt, Bond moulds $15.00. Savage .220 shotgun and rifle combination 12 gauge, 30-30, very good $40.00. Money order. Arthur Newman, Lewisburg, Penna.

Model K2.5 and K4
WEAVER-SCOPES
superb quality—moderately priced

No finer scopes have ever been made than the new K Models, yet they are not expensive. Their exceptionally large lenses and perfected optical systems give faster, more accurate sighting, larger field of vision. Weaver's scientifically engineered mechanical design is unrivalled for sturdiness and accuracy. Two types of positive, easy-to-set adjustments and two reticules are available. Examine the K2.5 and K4 at your dealers NOW!

Model K4
Four-power
$44.00

TYPE U
Side or Top Mounts
$5.75

Model K2.5
2½-power
Coated lenses
$38.50

WEAVER-SCOPE features
1. Extra large lenses (coated)
2. Amazingly light weight
3. Brilliant illumination
4. Exact adjustments
5. Enlarged field of view
6. Sturdy, weatherproof

WEAVER-CHOKES
Complete with any 2 choke tubes $9.75

Please send me your folder describing the
K Model Weaver-Scopes ☐ Weaver-Chokes ☐
Name_____
Address_____
W. R. WEAVER COMPANY
★ DEPARTMENT I EL PASO, TEXAS ★

KESS ARMS CORP.
1004 W. Center St. Milwaukee 6, Wis.
Manufacturers of GUNMAKERS
brand Shooters Supplies
improved Bluing Salts—Bluing Tanks
GUNSMITHING—GUN BLUING
All work guaranteed
Send address for catalog

CUSTOM MADE
Lead Alloy Bullets
.38 Special Wadcutters, 147 grs. and .357 Magnum, 160 grs. Semi-Wadcutters—Sharpe Design, $1.10 per 100, sized and lubricated. $1.00 per 100 unprocessed.
BUGIADA, MURPHY & LOOS, Inc.
116 Hale Ave. Brooklyn 8, N. Y. C.

GET YOUR COPY NOW!
Big FISHING and HUNTING CATALOG

Your chance to get famous name items: Pflueger, South Bend, Shakespeare tackle; Ithaca, Marlin, Smith & Wesson arms; clothing by Redhead; also outboards and boats. Everything for the outdoors. Send 25c (refundable with first order) for Catalog and Swap List of bargains in new and used guns.
'SWAP' GUNS BY MAIL Easy as trading your car. Describe your guns fully.
KLEIN'S Sporting Goods
Famous for Guns Since 1885
5211 TE S. Halsted Street, Chicago 7, Illinois

FECKER SCOPES

FECKER IS FIRST

- FIRST with a quality scope
- FIRST with astronomical accuracy
- FIRST with precision micrometer mounts
- FIRST with large objective scopes

AND NOW

- FIRST with the streamline balanced SUPER 1½" TARGET SCOPE

WATCH FOR FURTHER FIRSTS

All Lenses Coated—Write for Catalog

J. W. FECKER, INC.

2016 Perrysville Ave. Pittsburgh 14, Pa.

SHELDON PRECISION LATHES

MANY riflemen and gunsmiths use SHELDON Precision Lathes not only because of their extreme accuracy but because of their available features, which include extra collet capacity (1"), large hole thru spindle (1⅜"), extra bed length (70"—giving 44" between centers), more efficient drives, and other "big lathe" characteristics.

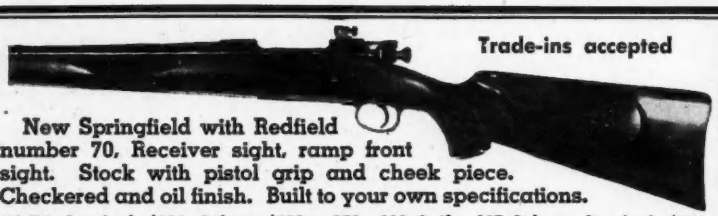
While not cheap lathes, SHELDON Lathes will invariably give you more lathe per dollar. The Model S-70 described here costs $877.00, without motor or tools f.o.b. Chicago.

Model S-70

11¼" Swing. 1" Collet Capacity. 70" Bed—48" Between Centers. Worm Feed Apron. Quick Change Gears. Complete with 4-Speed V-Belt Underneath Motor Drive and ¾ H.P. Motor in Pedestal Leg.

Write for Catalog GX-45

SHELDON MACHINE CO., INC.
Builders of Good Lathes since 1919
4243 N. Knox Ave., Chicago 41, U.S.A.



Trade-ins accepted

New Springfield with Redfield number 70, Receiver sight, ramp front sight. Stock with pistol grip and cheek piece. Checkered and oil finish. Built to your own specifications.

.30-'06—Standard, $125; Deluxe, $150. .270, .220 Swift, .257 Roberts—Standard, $175; Deluxe, $200.

FRANK PUGLIESE 1757 So. BROAD ST., TRENTON 10, NEW JERSEY

TAKE ALONG A BOTTLE OF

BAN-SECT REPELLENT

Repels mosquitoes, chiggers, flies, ticks, etc. 50¢ for 2 oz. bottle at Sporting Goods Stores.

BAN-SECT COMPANY
Miamisburg Ohio

Want To Purchase For My Collection

Mechanical Banks, Unusual Guns—Modern & Antique, Antique Clocks and Watches.

Richard Van Hoosear
151 Bay Shore Blvd. San Francisco 24, Calif.

TELESCOPES

Custom-made mounts for all European scopes designed and installed on your rifle.

AMERICAN GUN WORKS
1284 Sunset Blvd., Los Angeles 26, Cal.

.218 IMPROVED BEE, H.B., LOW WALL, BEAUtiful crotch walnut stock, cheekpiece, P.G., single set trigger, Hill mounts, 250 cases, 250 bullets, dies, very good, first M. O. $110.00. 9mm. Belgium Browning good, $45.00 or .22 auto pistol. R. B. Rynders, 99 Optical St., Geneva, N. Y.

SAVAGE OVER UNDER, 20-26 FULL, MOD., good, Jostam Pad, 100 Super X, $60.00. F. A. Baker, Donnelly, Minnesota.

COLT, SINGLE ACTION, .45 7½" EXCELLENT $50.00. Walther, .32, excellent, $30.00. Belt holster, .45, good, $8.00. 100, .45 cartridges, $5.00. Tool and mould, .45, $4.00. Paul L. Baker, Rosclare, Illinois

---

PERFECT CUSTOM PARKER 12 GA. SINGLE trap gun 32", full, grade SC4, sell $195.00. .351 Winchester auto. good, new wool case, 100 cartridges, $65.00, good Hi-Side Winchester 25-20 SS caliber $40.00. P.38 & holster $45.00. Consider trades. Paul Dehner, Burlington, Iowa.

9MM. ERFURT LUGER, 1916, CUSTOM BLUED; .44 special, S&W target; both 6½", have King ramp-reflector front, outlined windage-elevation rear, v.g., excellent, $67.00 each. 8mm. Nambu, glove model, excellent except few pits, holster $36.00. .38 Special (Trocoala Aranzabal, Spain), 6", reliable, accurate, fair, good, holster, $19.00. J. L. Lindquist, 7 Tower, Maplewood, N. J.

WINCHESTER 70 SWIFT, NEW $115.00. Elliott rough and finish reamers, 22-250, new both $25.00. Pacific .38 tool complete, perfect, $18.50. Smiley case trimmer latest, perfect $12.00. 100 Varminter loads, new cases, $15.00. A. R. Pryor, 808 Conroy Road, Birmingham 5, Alabama.

GERMAN D.B. HAMMERLESS REEB RIFLE v.g., engraved, fitted leather case, 57/7.8mm. $200.00, first money order. J. H. Levy, 2141 E 27th St., Brooklyn, N. Y.

WINCHESTER 95, .30 ARMY EXCELLENT IN, good out, $45.00. Winchester 95, .405, excellent, 37 rounds $60.00. Winchester 86, .50-100-450, excellent, 200 rounds, peep sight, $55.00. Colt Bisley, .45 excellent, 5½" barrel, 400 rounds, $65.00. Nicholas Coad, LeMars, Iowa.

SPEER .22 CALIBER .224 BULLETS, 40, 45, 50, 55 grains; $2.25 per hundred postpaid, $20.00 per thousand FOB Grand Island. Weaver K2.5 scopes $38.50. Remington model 31 shotguns, 20" barrel plus Weaver choke and two tubes $65.00 FOB Grand Island. All items on hand. J. W. Hornady, 324 West Fourth, Grand Island, Nebraska.

PERFECT TO EXCELLENT FOREIGN GUNS, P.38 $55.00. KKP .32 Walther $65.00. Walther .25 caliber $65.00 Radom 9mm. $55.00. Belgium Browning 9mm. $55.00. Woodsman $75.00. Greener 8 ga. double $150.00. Joseph Lang 12 ga. double $85.00. Mauser model 88 carbine 8mm. $25.00. Smith #4 grade 12 ga. double $125.00. Davenport 8 ga. single $35.00. Savage pump 12 ga. $50.00. Winchester Henry .44 flat repeater $35.00. Mention this ad and mail postal card for complete description. Geo. Brullesauer, 3957A Castleman, St. Louis 10, Missouri.

40-50 SHARPS GENUINE RELOADING SET, good $11.00. 40-50 Remington Hepburn, good inside, fair out, 40 cartridges, $28.00. .45 Colt Frontier 7½", v.g. in, fair out, 30 cartridges, $37.50. P.38 excellent in, v.g. out, 20 cartridges, $37.50. Savage combination 30-30 and 12 ga. v.g. $28.00. Arthur Bissell, Bondville, Vermont.

ARMS AND THE MAN, AMERICAN RIFLEMAN, April 15, 1922 through 1945, $36.00. 156 copies Outdoor Life 1921 to 1939 $10.00. A.K.C. registered Cocker and Springer puppies, $25.00 and $35.00. Dr. O. H. Bauman, Wabeno, Wisconsin.

TWO .357 S&W MAGNUM, ONE 75/8 BARREL very good, extra 31/2 new barrel $160.00. .357 5" with backman front sight excellent, $160.00. Oscar Wickham, RR #2, West Alexandria, Ohio.

COLT MATCH TARGET WOODSMAN, PERFECT $87.50. Thomas Higgis, R.D. #3, Jefferson Avenue, Trenton, N. J.

S&W .38 SPECIAL VICTORY, 4", PERFECT IN, slightly holster worn out, smoothed action, cartridges, extras, $38.50; .38 Special cases, fired once, 50¢ per hundred. Ben Vaupel, Mt. Vernon, Indiana.

COLT .32 AUTOMATIC, NEW, $35.00. KRAG sporter Bishop stock, good $40.00. Ithaca 12 ga. double, good, $45.00. F. L. Barlett, Kane, Penna.

SELL or TRADE

WINCHESTER HB 52 MARKSMAN STOCK 54098, perfect except dull spot on stock where adhesive cheek rest was. Marble Goss rear, Merit. Vaver front with apertures and own semi-scope. Freeland fore stop. Henshaw shoe hinge wood case match gun with ammunition available. Check for $135.00, or trade for perfect Winchester 12-12 ventilated trap grade. Member Lin Suits, Medford, Wisconsin.

BAUSCH & LOMB 7 X 50 BINOCULARS, LATEST type, coated lenses, new condition, case, $165.00. Want to Buy: Scope mounts for Hensoldt Dialytan and M70; model 70 Winchesters in 220, 270 and .300 H&H calibers; spotting scope; light weight six power binoculars. Curran Bashore, Mifflintown, Penna.

1903 SPRINGFIELD #1257735 17A. MICROmeter rear, oil finish stock, perfect inside, $95.00. 1903 Springfield #1532434 17A. Micrometer rear, custom stock, Monte Carlo, recoil pad fore-end stop, excellent, $125.00. Iver Johnson 12G single trap Nydar sight excellent $52.00. New Argus spotting scopes, Weaver K25 and K4 scopes, Fecker Targetscopes, Winchester 52 target rifles, .22 long rifle match ammo. Want Large and Small rifle primers, Single trap gun, rifles, etc. T. G. Crain, 919 Millville Road, Altoona, Penna.

FEATHERWEIGHT DOUBLE ST. ETTIENE 12 engraved spring recoil pad 5½ lbs., excellent, $125.00. Luger 9mm. excellent, $45.00. U.S.R.A. M.T. 8" excellent $30.00. Mauser Sporter excellent $65.00. Redfield Woodsman, excellent $45.00. Want rifles, shotguns, binoculars, actions, broken guns. Emil Stoll, 1918 Slauson, Racine, Wisconsin.

FIFTY GERMAN 8MM. $2.50; 75 NEW REMington 8mm. cases $3.75; 500 used .38 auto cases $4.00. Want 30-06 components. W. C. Johnson, Norwich, Vermont. Life Member.

NEW 8MM. MAUSER AND G43 SEMI-AUTO rifle, both $120.00 or combination gun. Paul Weik, 553 South 10th Street, Burlington, Iowa.

LATE WINCHESTER HB 52 VAVER AND REDfield excellent $85.00. Perfect 7 x 50 binoculars coated lens. B&L $135.00. Sard $120.00. Westinghouse $105.00. Interests in photography, sm'l bore and Varmint equipment. Art Jackson, 345 Adelphia St., Brooklyn, N. Y.

.410 DOUBLE, PERFECT, S.T. PAD, 100 3" CARtridges. Want M12 20, M70 Swift, .257". Model A Hi-Standard excellent. William Weidner, 1247 Lane, Topeka, Kansas.

.38 OMT EXCELLENT, $70.00. KRAG SPORTER, Pacific rear, 50 rounds, excellent, $55.00. .45 auto, good $40.00. 6 x 30 Army binoculars, IF, leather case, excellent, $65.00. 6 x 30 Dienstglas IF, v.g. $40.00. Want 16 gauge auto. and .22 rifles. Dr. J. E. Long, 1926 Foster, Memphis, Tennessee.

TRADE V.G. 3 BARREL GREIFELT 16 X 16 X 8 x 57 or good 3 barrel 16 x 16 x 9.3 x 72, barrels marked KRUPPSCHER FLUSSTAHL, all beautifully engraved, for excellent 70 Winchester Swift or V. G. Varmint rifle with good Varmint scope. 3¢ stamp for detailed description. T. O. McCool, Henryville, Penna.

.25 CALIBER FRENCH AUTOMATIC, V.G. $18.00; Walther new 7.65 caliber D.A. $35.00; Beretta caliber 9mm. perfect $35.00; all with holsters. Want B.B. air pistol; .22 caliber 4½" barrel Woodsman or what have you. Fornsel, 1866 Palmetto Street, Brooklyn, N. Y.

GERMAN BINOCULARS, 7 X 50, DIENSTGLAS, new, no case, $100.00; French binoculars, Dupont, 8 x 26, perfect case, $42.00; want still camera or movie outfit. Schott, 147 East 84th Street, N. Y. City.

M52 WINCHESTER, H.B. WITH LYMAN 17A front, Winchester 82A and Marble Goss rear sights, cleaning rod and leather carrying case, excellent $110.00. Might trade for 16" barrel Luger carbine. F. Douglas Ream, 606 The Alameda, Berkeley 7, California.

MODEL 95 WINCHESTER, 30-40 (30 ARMY), gold bead front, folding center, Lyman receiver, recoil pad, case, 25 O.P. cartridges, fired 60 rounds, excellent, $85.00. Savage .22 Hi-Power, nicely checkered and oil finished, gold bead front, folding center, Redfield receiver, sling, box cartridges, excellent $85.00. Want Savage .300 model 99-T or RS, Winchester 54 or 23D Hornet excellent. P. R. Lilly, Valdosta, Georgia.

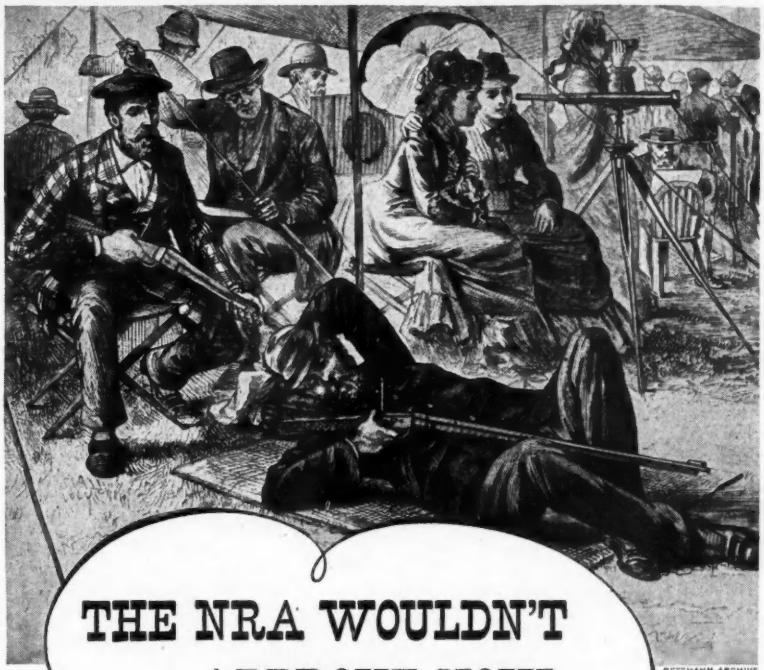
WINCHESTER M70 30-06, PERFECT, $100.00. Lyman 48WJS, perfect, $8.00. B&M #452236, $5.00. Stamp brings list of ammunition, hunting rifles, Leica camera accessories, Grover 4 x 5 view camera, M1912 shotgun barrels, .303 Savage tool and others. P. E. Boyce, Branford, Connecticut.

.257 M70 330C WEAVER, STITH, TILDEN, about new $160.00. .220 Mauser, Buhmiller, Unertl 8X, Cherry stock, new $180.00, less scope $130.00. Standard automatic .25 Remington bore rough, otherwise v.g. or better $60.00. Colt Lightning .22 short repeater, good $25.00. P.38 holster, 2 clips, excellent $55.00. .257 M70 barrel 20" as new $10.00. Mauser barrel $2.00. Want guns, write for details. G. P. Gyngell, 105 Girard Avenue, Hartford 5, Connecticut.

MAGIC WAND WELDER, REBUILT, $20.00. RCA 156B tube tester $30.00 or swap for? M. H. Caldwell, 131 No. Dixie, Lake Worth, Florida.

.35 REMINGTON, INSIDE EXCELLENT, OUTside excellent, 100 shells $100.00. Want 52 action .45 Colt, camera, binoculars. W. T. Boren, Sinclair, Wyoming.

9MM. LUGER EXTRAS, 8MM. MAUSER RIFLE, excellent, details on request. Want .257 rifle or $100.00. L. M. Kelso, Rocky Ford, Colorado.



BETTMANN ARCHIVE

THE NRA WOULDN'T APPROVE NOW...

The gentleman is not taking a siesta. He's demonstrating the 1876 version of the prone position. Our ancestors resorted to gymnastics such as this —possibly to help overcome the inaccuracies of unstable powder, eccentric projectiles, and crude rifling.

Hercules, through its never-ending search for finer sporting powders, has helped produce the uncanny accuracy of modern shooting. Given the sharp eye of an expert, a Hercules commercial loading will "cut the black" every time.

Sporting Powder Division

HERCULES POWDER COMPANY
INCORPORATED

980 King Street, Wilmington 99, Del.

HERCULES SPORTING POWDERS FOR BETTER ACCURACY

XS-61

SUPERIOR HOLSTERS AND BELTS

S. D. MYRES SADDLE CO.
EL PASO, TEXAS
Write for Catalog

SHOOTING AND SPORT GLASSES
CALOBAR · NOVIOL
SAGE GREEN
GOLDEN BROWN
$2.50 to $12.50
Also Ground to your prescriptions
Write for free folder R
STERN OPTICAL COMPANY, INC.
1284 Lexington Ave., New York 28, N. Y.

POINTER STOCKS molded in walnut and ebony for Colt Woodsman and Hi-Standard all models, $5.50; Colt and S & W $5.00 And Up. Molded in ivory 50¢ extra, for all models. At your dealer or direct. Send for illustrated circular. We are Originators of Plastic Gun Stocks. Please give 1st and 2nd choice on colors. .45 Colt Auto. soon ready. Pat. App. for.

SOUTHWEST CUTLERY & MFG. CO.
1307 Olympic Blvd., Montebello, Calif. We Do Not Sell Guns

TERHAAR GUN WORKS
Complete Gunsmithing Service
Rebluing, Restocking, Remodeling.
Sights, Scopes, Chokes, Recoil Pads installed.
Money-back guarantee.
6425 CROSS AVE., JACKSONVILLE, FLA.

TOOLS FOR THE GUNSMITH

Burgess Vibro Tool

Use this inexpensive tool for matting receivers, bolt handles, knobs, revolver back straps, triggers, front sight ramps, wherever matting will help to improve the hold or break reflection. Use it for marking identifications on guns and parts and to engrave the owner's initials. 120 reciprocal strokes per second, 60 cycle, 110 Volt A.C., $7.50; complete with 20 needles for matting and ordinary engraving, $9.50, with special Tantalum carbide point for hardened steel.

HUPPERT #5 ELECTRIC HEAT-TREATING FURNACE: Do your own hardening, tempering, annealing of tools. dies, reamers, springs, etc., in this low-cost operating furnace. 1900° F., 3 heat ranges, 7 point supplementary control within each of the heat ranges. Hearth dimensions 4½" wide, 3⅝" high, 9" deep; 110 Volt A.C. or D.C. Price, including Pyrometer, $117.50 F. O. B. factory.

MAGIC WAND WELDER: Transformer Model; weld, braze, solder, spot-anneal with this easy-to-handle, inexpensive welder. 110 Volt 60 cycle A.C. Price $34.50 F.O.B. N.Y.

ULTRA DE LUXE HAND-EE GRINDER: The tool of 1001 uses, 45 accessories, ⅛" collett, 25000 RPM, 110 Volt A.C. or D.C. Price complete, $25.00.

DE LUXE HAND-EE GRINDER: 7 accessories, ⅛" collett, 25000 RPM, 110 Volt A.C. or D.C. Price complete, $18.50.

PLAIN DRILLED PIPE BURNERS for bluing tank: Pipe ¾", flame length 24", $4.95. Pipe ⅝", flame length 30", $5.95.

PIPE 1", FLAME LENGTH 30", $6.25. F.O.B. N.Y. Specify whether for natural, artificial or bottled gas.

THERMOMETER GAUGES: For Salt Bluing solutions, tempering baths, molten metals for bullet casting, etc., etc., wherever exact temperature is important to insure best results.

Model 221 D. Head 3" diam., range 200° to 1000° F. Stem stainless steel, ¼" thick, 6" long	**$13.00**
Same as above with 9" long stem	**15.25**
Model 226L006 head 1¾" diameter, stem stainless steel, ⅛" thick, 8" long, range 50° to 500° F.	**6.50**
Model 226L005, dimensions same as 006, range 50° to 400° F.	**6.00**
Model 226L009, dimensions same as 006, range 0° to 250° C.	**5.75**

All prices are subject to change without notice and all goods shipped are billed at the prevailing prices on date of shipping.

FRANK MITTERMEIER

Gunsmith Supplies

3577 E. Tremont Ave. New York 61, N. Y.

GUNSMITHING

By Wurzer

Repair, alteration, restocking, etc., of modern arms. Write first for prices and delivery date.

WURZER and PETERSON

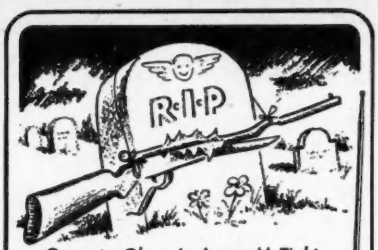
Formerly associated with R. F. Sedgley Arms Co.

5239 N. 5th St. Philadelphia, Pa.

LARGE ILLUSTRATED GUN CATALOG

Listing antique and modern guns, swords, daggers, armor, cartridges, etc. The finest collectors' catalog you can buy. Price 50¢ a copy.

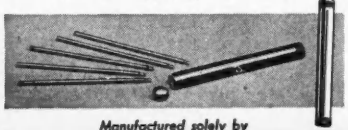
THE BELLPORT GUN SHOP, Bellport, N.Y., Dept. K.



Gone to Glory is Angus McTight, Who didn't need a "Feather Light."

The "Feather Light" Emergency cleaning rod is as light and compact as a match case — and equally indispensable. Made entirely of magnesium, with interchangeable tip, this pocket size field rod extends to a full 28" to clean guns from .22 cal., to 12 gauge of mud, slush, dirt, snow or other fouling matter. Light (1-1/2 oz.), compact (6-5/8"), the "Feather Light" is a "must" for the careful sportsman. Used only ONCE to clear a bore . . . it may save the barrel and perhaps your life!

Only $1.50 (check, cash or money order) for prompt, prepaid delivery.



Manufactured solely by

WALTHAM SCREW CO.

3 Butterick St., Waltham, Mass.

Announcing:—

THE GUNSMITH'S MANUAL

by Stelle & Harrison

Being a reprint of this early classic (published in 1882), which for decades was THE standby and authority amongst professional gunsmiths of America.

A 396 page book of detailed instruction for gunsmiths, mainly relating to the methods employed in the making, stocking and repairing of muzzle loading firearms, both flint and cap lock. Replete with drawings of the special tools necessary to carry out the work of boring, rifling, restocking, blueing, finishing, replacement of nipples and tubes, making and positioning gun hammers, making of gun screws, springs, bolts, thimbles, escutcheons and ramrods; in fact, everything needed by the early gunsmiths, plus instruction for the making of the tools to do the job with. Considerable data is included regarding the early American breech loaders, with instructions for dismounting and assembly.

Here is a book which every muzzle loading fan should have, as it was the Shooter's Bible back in the heyday of the muzzle loader. Price $4.00.

THOMAS G. SAMWORTH

Plantersville South Carolina

PROTECTIVE GOGGLES

All our lenses are ground to exacting government specifications.

FLYING—SHOOTING
DRIVING—FISHING

30-day Trial. Also ground to your prescription. Write for booklet.

$3.75 to $12.50

W. N. BELZ, INC., Opticians, 2 E. 44th St., New York

Specialists in Fitting Shooting Glasses.

MILLER BEDFORD, New London, O.,

For RARE OLD guns will pay nice dough.

TWO MAUSER ACTIONS, V. G. $18.00. ONE K-43 semi-auto. rifle never fired $50.00 or will trade. W. E. Meyer, 106 Alpine Drive, Knoxville, Tennessee.

EASTMAN CAMERA, 3¼ X 5, FILM PACK, $10.00. Printer 5 x 6, $10.00. Farm Light Plant, automatic, 110 volt, 1¼ kw. D. C., $125.00. Ladies' ice skates, size 5, $4.00. Hip boots size 10, $4.00. Want guns. J. A. Brown, 26317 Senator Avenue, Lomita, California.

PERFECT GERMAN K-43 SEMI-AUTOMATIC with 4X scope, q.d. mount, dust cover, $75.00. Excellent Lefever Nitro special 12-28, FM, $40.00. Will trade both for 16-26 double or auto. T. J. Sisbower, North Granby, Conn.

NEW JORDAN PRESS, .257, 8MM. DIES $53.75. Want: Primers, 8mm. bullets, target scope, military rifles. Milton Spriggs, 119 Haskell, Battle Creek, Michigan.

ED KETTNER THREE BARREL HAMMERLESS, double 16, rifle 9.3 x 74, good condition, highly engraved hunting scenes. Genuine leather imported carrying case, $175.00 buys all. Trade for .270 or 30-06 equal value. Frank Griffin, Box 861, Angleton, Texas.

THREE BRAND NEW CUSTOM SPORTERS, calibers, .257, .270, 30-06, built on Mauser actions, actions refined, crisp triggers, beautiful checkered stocks, rifles fitted with Redfield Jr. mounts, K2.5 scopes, special safeties, sling swivels and slings, $195.00 each. Will take actions in trade. M. O. Smith, Polson, Montana.

9MM. WALTHER P.38 OFFICERS, CHROMIUM plated, very good, $35.00. 35 others for sale. Want rare & odd automatics. Sid Aberman, 5650 Marlboro Road, Pittsburgh, Penna.

ZEISS 8 X 40 TELACTO BINOCULARS, EXCELlent, $150.00 case. Hensoldt Zielyt scope, Dot, Stiths best mount for 70 optically perfect $75.00. Excellent G&H, fancy custom sporter 30-06 $165.00. Want: Late Remington 37. Late 52 standard. J. W. Latham, 744 Chipeta, Grand Junction, Colorado.

COLT SUPER .38 AUTOMATIC EXCELLENT, 40 cartridges, $60.00. Want .38 OMT, M.T. Woodsman, standard 52. Howard Kaufman, 34 Bogman, Providence 5, R. I.

AUSTRIAN STEYR, STRAIGHT PULL, 8 X 57 rifle. Custom made walnut sporter stock. Barrel perfect inside, reblued outside, $75.00. To trade describe gun fully. B. E. Hartzler, New Windsor, Maryland.

81 REMINGTON 300, VERY GOOD OIL FINished stock, recoil pad, $95.00. Want 70 Winchester, Mauser actions. Hans Lafrenz, 1702 West Tonto, Phoenix, Arizona.

MALCOLM SCOPE 4X LYMAN MOUNTS $26.50. Wollensak 20X telescope $12.00. Binoculars 6 x 30 I. F. $49.50. Want MT .22 shotgun. Ernest Haeuser, Rugby, N. Dak.

WINCHESTER 54, H.B., MARKSMAN STOCK, Redfield 100, Lyman 17A, blocks, sling. Excellent out, bore good, $125.00. Consider hunting rifle. B. W. Partridge, 4200 Sunshine Road, Miami 33, Florida.

VERY GOOD VOIGHTLANDER HUNTING scope, Unertl target mounts, $85.00. Want: Late 52 Standard, 2" Unertl. Charles Sherrod, Hyattsville, Maryland.

WINCHESTER HIGH-WALL, 28-30, SPIRIT level front, Vernier rear, single set trigger, excellent out, v. g. in, few small pits, 13 loads, 16 cases, $45.00, or trade for Winchester S. S. .25-20, .32-40, or .38-55. Will buy same. Don Stanton, Sherman, N. Y.

REMINGTON M30S, 440 IN REDFIELD MOUNT, sling, excellent to perfect, $115.00, .455 Eley, New Service, excellent $40.00; B&M reloading outfit for .30-'06, components $15.00. Want 10 power targetscope; barrel for .25 Ortgies. Bob Mangus, 140 No. Grant, W. Lafayette, Indiana.

7.65 LUGER, VERY GOOD, $50.00. WANT .22 Hornet, automatic .22 pistol. Dewey Steward, Russell, Kansas.

WALTHER PPK .32 AUTOMATIC, CHROME plated, excellent, holster and 15 cartridges, $50.00. Will trade an excellent .38 S&W special barrel for? Will buy Hi-Wall or 44½ Stevens action. Jack Sonneveld, 12013 Eggleston, Chicago, Illinois.

B&L 7x35 CF BINOCULAR, EXCELLENT $100.00 or trade for Eastman #90 8mm. magazine camera, like condition. E. L. Gosse, 822 Swift, Sheboygan, Wisconsin.

ANTIQUE CLOCKS, TERRY, SETH THOMAS, others, spring, weight, wooden sheels, $25.00 to $125.00 or good guns. Also Key wind watches $15.00 to $50.00. Stamp please, no wires. Charles Wilkins, Box 161, Luke, Maryland.

WALTHER PP 7.65 D.A. PERFECT, $50.00, OR excellent Krag. E. O. Eggers, 118 West College Avenue, Appleton, Wisconsin.

TRADE

NEW RIFLES, REVOLVERS, SCOPES, ETC. AS available, to trade for good antique firearms. James Serven, Santa Ana, California. tf

TRADE NEW WEAVER SCOPES, COATED LENS, for very good Winchester 94 rifles and carbines, Enfield and German Mauser rifles. K2.5 trade even; K4, gun and $10.00. W. Joseph O'Connor, Sportsmen's Equipment, Baker, Oregon. 8-46

REMINGTON MODEL 32A O&U STANDARD M&F barrels excellent, rest v. g., single trigger. Want same in trap grade. Walnut Hill heavy barrel Stevens, excellent. Want 70 Hornet .257. R. Rye, Blooming Prairie, Minnesota.

ARGUS, LYMAN ALASKAN, AND WEAVER scopes. Want large rifle primers, and other components. Frank Foster, Box 983, Clovis, New Mexico.

2-AIRCO WELDING REGULATORS TWO STAGE, oxygen 8506, Acetylene 8502, excellent. Also Airco welding and cutting torch, mixer, tips. Want 3 or more 98 Mauser actions 1941 or prior, or 2 with double set triggers. Write: Ken Holverson, 3609 Cedar Avenue, Minneapolis 7, Minnesota.

WINCHESTER .38 WCF GOOD, ALSO ROSS 303 good, cartridges for each. Want good guns, also have other good guns, stamp. Egyptian Gun Exchange, Cambria, Illinois.

CUSTOM WINCHESTER HI-WALL HEAVY barrel .22 caliber target rifle, Fecker scope, case and sling, very good, cost $225.00. Trade for Speed-Graphic or good camera. George Lord, Madelia, Minn.

EXCELLENT TO PERFECT WINCHESTER M65 .218 Bee, beautiful oil finished fancy checkered stock, pistol grip cap, q. d. swivels, Whelen sling, Redfield receiver sight, 3 boxes ammunition for excellent high grade 16 gauge double. Robert M. Chapin, 4237 Irvington Ave., Jacksonville, Florida. Member.

ORIGINAL PARKER BROTHERS VH 12-30, metal excellent, wood about v. g. Want same 16-26, consider 20-26. John Baker, Loudon, N. H.

.30 CALIBER M2, 1942 AMMUNITION FOR either of the following target guns, K22, Woodsman or Officers model. A. Masterton, 69 Main St., Malden, Mass.

WALTHER AUTOMATIC 7.65 SELL OR TRADE for .32 new Departure S&W. B. T. Coots, 706 West Main Street, Scottsville, Kentucky.

SECOND HAND SHOTGUNS FOR RIFLES handguns or telescopes. J. D. Copeland, Oak Grove, Louisiana.

LUGER 9MM. BOX SHELLS, EXCELLENT, SAVage model 20-250-3000 custom stock, excellent. Mauser carbine .257 caliber custom, shells for both. Want .270 must be excellent. Paul T. Watson, 1117 1st Street, Napa, California.

GAUGE BLOCKS, METRIC, 103 BLOCK SET, never used. Want small machine tools and machinery. Ben's Gun Shop, Ambler, Penna.

EXCELLENT MODEL 31 REMINGTON 12 gauge rib barrel, recoil pad, Poly Choke shells. Want 20 gauge pump excellent rib barrel. Terhaar Gun Works, 6425 Cross Avenue, Jacksonville, Florida.

WALTHER .22 MODEL PP EXCELLENT TO perfect. Want M70 in Hornet, Bee, or 2R caliber. B. L. Humphrey, Montour Falls, N. Y.

.220 BUHMILLER MAUSER, EXCELLENT 4 boxes of factory loads, bullets primers & cases, trade for commercial Mauser caliber 7mm. Information on request. S. Erickson, 8 E. 6th Street, Oil City, Penna.

.35 REMINGTON MODEL 8, GOOD, PEEP, recoil pad, custom stock, shells, for .250-3000 or .257. Victor Burke, Pullman, Washington.

TRADE—LATEST WINCHESTER 52 STANDARD Lyman 12X very good, for 4 cases .22 shorts. Claude Shuff, 620 Franklin St., Johnstown, Penna.

HAVE 25VP MAUSER AUTO PISTOL, HANDEE grinder, 16 Weaver Poly Choke. Want .22 Mossberg Brownie 4 pistol, home workshop tools. Ray Welker, 406 No. Harvey, Oak Park, Illinois.

GOOD B. S. A. STANDARD .22 AIR RIFLE FOR late 7x50 binocular. Sheldon Coats, 718 Roberts Street, Utica, N. Y.

NRA MANUALS

REMODELING MILITARY RIFLES
How to convert the Enfield (or any military rifle) to a sporter is the "meat" of this 48-page pocket-size booklet.
—25¢—

SIMPLIFIED BALLISTICS
A technical manual easy-to-read, easily understood, with 2-color illustrations. Pocket size. 68 pages.
—25¢—

FROM TYRO TO MASTER
A 60-page pocket-size manual on .22 rifle shooting fundamentals, including helpful hints for the small-bore rifleman.
—25¢—

AMERICAN SIGHTING SCOPES
A manual on the merits and demerits of scope sights—both hunting and target. Pocket size. 48 pages.
—25¢—

ABC OF PISTOL SHOOTING
A splendid little manual on the fundamentals of target shooting with the handgun. Pocket size. 32 pages.
—25¢—

Send $1 for all 5—We Pay the Postage

NATIONAL RIFLE ASSOCIATION
1600 RHODE ISLAND AVENUE
WASHINGTON 6, D. C.

You can't Hit 'em if you can't See 'em!

SCOPE-SHADE

You get all-weather use of your scope with a Scope-Shade, as it protects the objective lens of your scope from sun, rain and snow.

Made of finest blued steel, a Scope-Shade improves the looks of your gun. Very easy to install. Absolutely no reduction in your field of vision. If not satisfied with Scope-Shade your money cheerfully refunded.

Scope-Shade is made in sizes to fit all scopes. All ¾" scopes, such as Weaver 330 and 440. **$1.50** Lyman Alaskan and Weaver K 2.5, $1.75. All others, custom made $2.00. Sent postpaid with complete instructions. If your store cannot supply you, send check or money order direct to manufacturer.

SCOPE-SHADE COMPANY, Metzger, Oregon

'SCOPE SPOT

A made-to-order CENTER DOT reticule of highest quality for scope sights. Satisfaction Guaranteed. In stock: Lyman Alaskan, Weaver, Argus scopes. Mounts, scope covers. Send stamp for circular.

T.W. STEIN 854 S. Washington BUTTE, MONTANA

CUSTOM LOADING SERVICE

All popular .22's and wildcats. Case forming specialist. See Feb. '46 Dope Bag. All weights and diameters .22 bullets.

J. W. McPHILLIPS
285 Mastick San Bruno, Calif.

GET YOUR CAMP PERRY NEEDS BY RETURN MAIL

FOR THE SHOOTER BY A SHOOTER

FREELAND FORE-END STOPS, REALLY COMFORTABLE ..... $2 and $2.50
FREELAND DELUXE OFFSET TRIPOD ..... $ 8.50
ARGUS SUPER GRADE SPOTTING SCOPE. 74.50

ARGUS LEATHER CARRYING CASE .. 15.00
FREELAND SHEEPWOOL SPOT SCOPE CASE WITH ZIPPER CLOSING TWO ENDS 3.00
FREELAND RIFLE SCOPE ZIPPER CASE 2.50
FREELAND DELUXE ARM CUFF & HOOK 3.00
FREELAND SHORT SLING FOR CUFF .. 1.45
FREELAND LEATHER RIFLEMAN'S GLOVE 3.00
FREELAND BEAVERTAIL RIFLE REST FORK .60
FREELAND 50-HOLE CARTRIDGE BLOCK .... .85
FREELAND DEWAR TYPE CARTRIDGE BLOCK 1.25
FREELAND RIFLE CASES, THEY REALLY TAKE THE RIFLE WITH SCOPE MOUNTED WITHOUT CROWDING, INTRODUCTION SPECIAL 15.00

FREELAND SLING KEEPER, SCREW TYPE 1.00
FREELAND LENS ADAPTER, TAKES A 1⅛" LENS, THE FINEST. APERTURES FURNISHED 8.50
RED HEAD RIFLE COATS 8.50–9.50
SHEEPWOOL GLOVES ..... 75¢–1.00
ATLAS PRONE SHOOTING MATS, F.O.B. HERE 9.00
AMERICAN OPTICAL GLASSES 7.50–9.00
WEAVER K2.5 SCOPE, $38.50; K4 ..... 44.00
WEAVER, STITH AND REDFIELD MOUNTS FOR SAME
MERSHON RIFLE BUTT PLATES 1.75
PACHMAYR RIFLE BUTT PLATES 2.00
POINTER PISTOL GRIPS 4.50–5.50
FRANZITE PISTOL GRIPS 3.00–5.00
SHEEPWOOL HOLSTERS 1.50
RIFLE CLEANING RODS 1.00–1.50
PISTOL CLEANING RODS 50–1.50
OFFICIAL 3-WAY SCORING GAUGE ..... .75
BELL .22 SCORING GAUGE ..... .30

THOMAS TRIGGER FOR YOUR 52 and 37 ... 19.00
PLUS 11% EXCISE TAX.

ZIPPO CIGARETTE LIGHTER, GET IT NOW.. 2.50
HULL AUTOMOBILE COMPASS, DON'T BE WITHOUT IT 3.95
PACIFIC SCALES 7.00
ANNUAL AND LIFE MEMBER BRASSARDS.. .50
BEAVERTAIL TRIGGER SHOES, BE EQUIPPED 1.50

.22 L.R. SHELLS, $7.80; MATCH GRADES.. 11.05

WE ARE GETTING IN VAVER SIGHTS, REMINGTON 513 RIFLES, FECKER & UNERTL RIFLE SCOPES, 10-X COATS AT $12.00 AND $10.00, AND THE 10X GLOVE AT $3.00. THE HD HIGH STANDARD .22 AUTOMATIC PISTOL AT $49.50.

ALSO, WE ARE NOW IN A POSITION TO ACCEPT MORE ORDERS FOR THE *COMPLETELY CUSTOM BUILT, NATIONALLY KNOWN FREELAND CHAMPION RIFLE STOCK*, so get your order scheduled NOW FOR FALL DELIVERY. (First come, first served.)

CUTTS COMPENSATORS AND POLY CHOKES FURNISHED & INSTALLED. WRITE TODAY. CO-OPERATION GUARANTEED. APPRECIATION ASSURED.

(We have everything that is available)
Prices subject to change without notice
FREELAND'S SCOPE STANDS

AL FREELAND
3737 14th Ave. Rock Island, Illinois

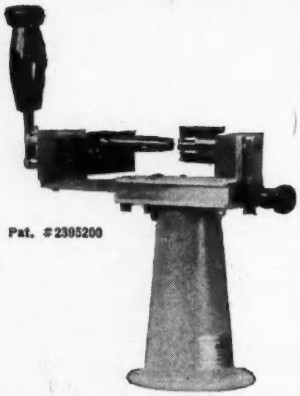
TELESCOPE ATTACHMENTS

1¼" hard coated lenses. Easily installed yourself or we will install. Increase the power of Weaver 29S to 6X, 330 to 6X or 8X, 440 to 8X or 10X, and K2.5 to 6X. Price $16.00.

EDWARDS SIGHT CO., Union City, Indiana
See your dealer or order direct

INFORMATION! FREE: International List of hundreds of fascinating publications—Trade, Technical, and Diversion.. Current copies covering YOUR sphere of interest. Send stamped, self-addressed envelope. No obligation. THE CLASSIFIED NEWS, Dept. RX, Flushing, N.Y.

SMILEY
CARTRIDGE TOOLS



Pat. #2395200

Improved Neck Cut-off tool, illustrated, price $12.00
Regular Case Trimmer—like illustration, price 12.00
Trimmer & Cut-off Comb.—like illustration, price 15.00
Improved Super Case Trimmer.....New Price 14.50
Primer Pocket Reamer.....New Price 7.00

Above units guaranteed and postpaid.

FOLDER FREE

Ask your Dealer or write

G. T. SMILEY CO.
CLIPPER GAP CALIFORNIA

J. UNERTL OPT. CO.

"THE MARK OF OPTICAL EXCELLENCE"

Precision Rifle Telescopes better than ever, coated of course, available now. More and additional new products as we go along. Keep in touch by asking your dealer or us for catalog or advice.

J. UNERTL OPTICAL CO.
3551-55 EAST ST., PITTSBURGH 14, PA.

SMALL-BORE SHOOTERS

Install the famous Thomas Trigger Mechanism on your 52 Winchester or your 37 Remington Rangemaster.

Improve your scores as many others have done in the past.

Price.....$19.00
Plus 11% Excise Tax

L. G. THOMAS 132 E. Robinson Shreveport, La.

Jungle-proven Rust Preventive

[A CHEMICAL DEVELOPMENT OF SCIENTIFIC WARFARE]

NOW AVAILABLE!

..SHEATH..

SPORTSMEN

IT'S TRUE! YOUR RUST WORRY'S OVER

A Great Discovery!

Out of the war comes **SHEATH** (now further tested and improved), the amazing new wonder oil discovery that protected our arms and equipment against rust and corrosion under the most trying conditions of landing attacks, salt water, and jungle swamps.

This scientific **SHEATH** is a thin, free-flowing preventive that does what no heavy, messy grease could ever do; flows to almost inaccessible places and displaces water to give lasting protection against **RUST.** Think of it—**SHEATH** eliminates the cause of rust, yet is clean, easily handled, dries quickly, leaving only a "magic" film of protection.

Now you can keep that favorite shootin' iron, those pet plugs and spoons, steel leaders, rods, tools, and equipment free from rust with **SHEATH.**

SHEATH is so new to civilian markets your dealer may not yet have it. For prompt service, use personal order blank below.

Or write your nearest dealer:

Eldon Carnett, New Haven, Michigan; Atlantic Shooting Supplies, Elberton, N.J.; Crescent City Gun Club, New Orleans, La.

MAIL TODAY

A PERSONAL INDUSTRIES ALLIED TO FIREARMS & SHOOTING ORDER

Bob Brownell
Montezuma, Iowa
PLEASE SEND POSTPAID . . . TO . . .

_____

_____

DEALER'S NAME_____

☐ 8 Oz. Bottles Sheath at $1.00 Each
☐ 3 Oz. Bottles Sheath at .50 Each
☐ Money Enclosed ☐ C.O.D. Plus Charges

RECOIL PAD

Send check or money order
Satisfaction Guaranteed
We furnish pad and install on your gun for $7.50; includes Butt Refinishing.

$3.00

DEALERS AND JOBBERS WANTED

PACHMAYR GUN WORKS
Dept. A, 1220 So. Grand Ave.
Los Angeles 13, California

ANOTHER CHRISTY SIGHT NO. 29E

for the Remington Auto.

Neat, simple, sturdy and compact. Adjustable for windage and elevation. Complete, $4.00.

CHRISTY GUN WORKS
875 57th Street
Sacramento, Calif.

DDRI—The Dampness Displacing Rust Inhibitor

Completely effective on Firearms, Cutlery, Tools, and Tackle, even though they are WET with Rain, Perspiration, or Salt Water when DDRI is applied.

"You needn't DRY it before you DDRI it."

3-oz. bottles. At your dealer's. 50c

MODEL 21 12GA. WINCHESTER DOUBLE, 401, and .351 Winchester autoloaders, all v. g. to excellent. Want 12 over and under, or .270 rifle. Will trade any two guns for excellent Remington over and under. Henke, 559 Evergreen, Ventura, California.

LEFEVRE MODEL 3 TRAP GUN 12-32 FULL, ventilated rib, Beavertail forearm, excellent. Want 8x30 or better binoculars. B&L or Zeiss. Earl W. Glisson, 521 First Avenue, Parkesburg, Penna.

WINCHESTER 52, H. B., NO SIGHTS, LATE model. Kodak Duo Six-20 camera, Chrome, very good, Want: Auto Rolleiflex, Leica, Ikoflex III. George Irwin, 3410 Douglas Blvd., Chicago 23, Illinois.

HAVE EXCELLENT MODEL D HI-STANDARD. Want excellent 23D Savage or Savage 99 .250-3000 or .22. J. S. Neff, Manila, Utah.

NATIONAL GRAFLEX CAMERA 2¼x2¼ F3.5. Want Kodak Retina camera model II F2. J. D. Williams, Medfield, Massachusetts.

LYMAN TARGETSPOT 12X, EXCELLENT FOR Savage 99R, RS, T, .300, 250-3000, Winchester .348, M64 Deer rifle or what? Charles Davis, % E. L. Foster, Windsor, Colorado.

KILBOURN HORNET PACIFIC TOOL FOR Mauser action. Lyman 438 and $5.00 for Mauser action. Want reloading tool for .300 Savage. Andrew Carty, 445-9th St., Sparks, Nevada.

HAVE PERFECT .32 BERETTA, EXCELLENT P.38, perfect Erma .22 caliber conversion unit for Mauser 98. Want Winchester 63, 4½ Woodsman or Hi-Standard, excellent to perfect. F. W. Sedekum, 917 Ruskin, Edwardsville, Illinois.

SHOTGUN SHELLS FOR NCNM LARGE RIFLE primers. Dr. C. J. Miller, Ord, Nebraska.

600-CALIBER .30 BLANK CARTRIDGES. WANT K.22 or Weaver, K2.5 scope. Otto Carpenter, 1021 Norfolk, Park City, Utah.

500-55GR. .2235 BULLETS FOR 500 #115 OR #8½ primers. M. Bourdow, 617 South Warren, Saginaw, Michigan.

SWAPPERS: TRADERS: WRITE FOR FREE list. Catalog of Swaps, Swappers Gazette-R, Louisville 12, Kentucky.

EXCELLENT MOTHER-OF-PEARL OPERA glasses for Colt Officer model or Colt Match Target Woodsman .22. Emil E. Olsen, 5615 Berry Court, Greendale, Wisconsin.

WANTED

WANTED—OLD, OBSOLETE OR ANTIQUE pistols and revolvers in working condition. H. A. Brand, 1008 Ingalls Bldg., Cincinnati 2, Ohio. 4-47

WANTED—BROKEN OR COMPLETE SHOTguns, rifles, revolvers and gun parts, (bought in any quantity). Scaramuzzo, 601 South Halsted, Chicago 7. 3-47

A QUICK, FAIR DEAL FOR YOUR ANTIQUE Firearms. Will buy any number, anywhere, immediate full cash payment. Many large collections purchased annually. James Serven (Life Member) Santa Ana, Calif. tf

KENTUCKIES WANTED—FINE ORIGINAL Kentucky rifles, Kentucky pistols, early American engraved powder horns, rare arms books and literature. Herman P. Dean, P. O. Box 1240, Huntington, West Virginia. tf

LOTS OF ANY SIZE, UP TO 100 OR MORE, bull-dogs or top-breaks pistols, can also use Colts, S&W, Wheelers, 32's or 38's, or what have you. Jules Livingston, 501 E. Baltimore Street, Baltimore 2, Maryland. 3-47

WE BUY GUNS, AMMUNITION, FISHING tackle, state lowest cash price in first letter. Alliance Gun Exchange, Alliance, Ohio. 8-46

CASH FOR YOUR GOOD PARKER, WINCHESter 70 and other guns. Hershey's, Orrville, Ohio. 12-46

ANTIQUE PISTOLS, SINGLE PIECES OR entire collections. Wm. M. Locke, 3607 Ault Park Road, Cincinnati 8, Ohio. 11-46

WANTED—FOR CASH: ANTIQUE PISTOLS, rifles, swords, daggers, world war rifles, relics, collections, single pieces. Robert Abels, 860 Lexington Avenue, New York 21, N. Y. 1-47

OLDER MODEL S&W PISTOLS, REVOLVERS, and factory variations of standard S&W models. H. L. Remmel, 1622 Center, Little Rock, Arkansas. 12-46

RARE PISTOL COLLECTIONS. CASH. Describe, price. Life Member. Miller Bedford, New London, Ohio. 3-47

REVOLVERS, AUTOMATICS, ALSO GUN PARTS, regardless of condition. Give description and your price, reply assured. Kenfix Company, 3706 Florida Avenue, Tampa, Florida. 4-47

BAUSCH & LOMB 7x35 BINOCULAR, MUST BE perfect condition. Frank Pugliese, 1757 South Broad St., Trenton 10, N. J.

MANY TYPES OF OBSOLETE AMMUNITION both US and Foreign. Carl Metzger, 2305 Canton Street, Dallas 1, Texas. 9-46

KRAGS, ENFIELDS, SPRINGFIELDS, 45 AUTOmatics, also cartridges for same. William J. Frewen, Box 536, Lansing 3, Michigan. 8-46

95 WINCHESTER 30-06 V.G. TO EXCELLENT, privilege of inspection. George Cluett, Little Compton, R. I. Member. 9-46

OLD AUTOMOBILE LICENSE PLATES WANTED from everywhere. Anthony Shupienus, Newport, New Jersey. 8-46

WANTED—FOR CASH: 44 COLT AND REMington percussion revolvers, poor to fine. Robert Abels, 860 Lexington Ave., New York 21, N. Y. 1-47

.300 H&H MAGNUM RIMLESS BELTED CASES. Elon P. Close, Exeter, California. 8-46

.38 CALIBER AND SMALLER REVOLVERS. Can use Colt, Smith & Wesson and cheaper revolvers. W. M. Perry, Member. Columbia, S. Car. 8-46

HIGH GRADE HAMMERLESS SIDE LOCK double barreled shotgun with modern steel barrels and automatic ejectors. Don Hopkins, 806 Old National Bldg., Spokane, Washington. 9-46

GOOD SHOTGUN AND DEER RIFLE; ALSO .22 rifle. F. D. Sweeney, 1104 San Pablo, Fresno, Calif.

CARTRIDGES FOR 9MM. LUGER. PLEASE state quantity and lowest price. Robert C. Mann, Lincoln, Mass.

32 COLT AND 35 WINCHESTER AUTOMATIC cartridges, need them badly, also .22 rifle excellent or better, preferably Remington or Winchester autoloader. Ernest Hibbert, 805 No. Clostner, Edinburg, Texas.

30-06 WINCHESTER 1895 CARBINE PREferred, 25 Remington automatic. Emal Pearson, Little Falls, Minnesota.

PERFECT WINCHESTER, PARKER, DOUBLE 16, STAE. D. Murray, Box 228, Monterey, California.

ACCURATE STEVENS WALNUT HILL. WOULD consider Martini or Ballard. Will Sell: Old German revolver marked SUHL—caliber 10.55 (?) $20.00 or to apply on above. R. J. Weaver, 403 West High Street, Elkhart, Indiana.

EXCELLENT .270, M70, WINCHESTER, DEscribe fully. G. A. Barrus, Cody, Wyoming.

WINCHESTER MODEL 70 IN .257, .250-3000, and .220. No telescopes. .270 cases. Full particulars and price in first letter. William Heupcke, Sugarloaf, Penna.

COLT ACE, EXCELLENT TO PERFECT. L. Bock, W. T. Lane & Bros. Poughkeepsie, N. Y.

WILL PAY $40.00 FOR WOODSMAN: $35.00 FOR Hi-Standard, excellent or better, also want .32 automatic pistol. F. D. Sweeney, 1104 San Pablo, Fresno, California.

LONG RANGE CREEDMOOR TARGET RIFLES. Especially want a fine specimen of following. Whitworth Hex Bore, Maynard, Farrow, Frank Wesson, Rigby Muzzle Loader, & others. Especially want a deluxe engraved Sharps Borchardt or side hammer model, also Want Sharps ammunition in original boxes. M. C. Clark, 169 No. LaPeer Drive, Beverly Hills, California.

MODEL 75 WINCHESTER TARGET, BORE, complete action must be in perfect condition, N.R.A. Standards, stock, bluing and sights, no object. T. W. Lee, 510 N. W. 6th Ave., Portland, Oregon. Member.

HORNET, 2R LOVELL, SWIFT, .257, .270, .300 Savage, .300 Magnum, .357 Magnum, .44 Special, fired once or new cases, also primers NMNC. Bugiada, Murphy & Loos, Inc. 116 Hale Avenue, Brooklyn, N. Y.

COLT SINGLE ACTION FRONTIER MODEL .45 caliber with 4¾" barrel blued, must be perfect, state reasonable price, write. Harry Parmenter, Gwynedd, Penna.

COLT SUPER .38. GOOD TO EXCELLENT. Price must be right. A. Porges, 2743 San Marino Street, Los Angeles, California.

Do fine craft work, faster, with a

BURGESS vibro-tool

Trade Mark Reg. U. S. Pat. Off.

Engraves your name or insignia . . . instantly, easily, permanently, on all your guns, fishing rods and reels, other sporting gear . . . favorite tools. Anyone can use the Vibro-Tool for every kind of craft work . . . tooling leather, decorating glass and plastics, engraving jewelry, etc., etc.

The Vibro-Tool complete with 22 accessories for engraving on steel, jewelry; decorating glass and plastics, carving on wood; cutting out patterns from cloth, rubber and cardboard, tooling and embossing leather, and many other jobs, plus sharpening stone, conveniently fitted into handsome hardwood, natural finish, hinged box. **$16.50**

The Vibro-Tool operates by vibration . . . 120 vertical strokes per sec.; 60 cycles AC. 110 V.

The Vibro-Tool may be purchased separately, with engraving needle for **$7.50**

SEE YOUR DEALER or Order Direct

HANDICRAFT DIVISION

BURGESS BATTERY COMPANY

190 N. WABASH AVE., CHICAGO 1, ILLINOIS

Learn to Shoot

New Mossberg Rifle 44 U. S. .22 cal., 7 shot	$27.90
New Win. Model 12 Skeet Gun, 12/16 Imp. Cyl.	97.00
New Weaver Scope K2.5, Hard Coated Lenses	38.50
Winchester Mod. 12-Pump 12-30 Full	70.95
L. C. Smith Field Grade, Double 12/30 M & F	83.45
L. C. Smith Fulton Grade, D.E. 12/30 M & F	49.85
Win. Mod. 63 Auto 22 cal., K2.5 Weaver Scope	99.50
New Barrels for .45 Colt Automatic	3.95
New Barrels Colt O.M.T. .22 cal. No sight blade	5.95
New Barrels for 38 Super Auto. Colt	3.95
New Magazines Model B, A, D & E Hi Standard	1.75
New Magazines H & R Reising .22 Auto. Rifle	1.75
.303 British Ctgs., 174 gr. M.P., per 100	6.25
.30/06 Gov't Cartridges, Western C.C. 150 gr., M.P. Flat Base Bullet, per 100	7.00
Shotgun Battery Primers 209 Western, per 1000	4.75

Ammunition: 25/35, .30/30, .270, .35 Rem. and others.

Send 3 cent stamp for list

HUDSON SPORTING GOODS CO.

R-52 Warren St. (No C.O.D. Orders) New York 7

Belding & Mull

RELOADING EQUIPMENT

Complete 130-page B & M Handbook, 60¢. Descriptive folder, free.

Belding & Mull, Philipsburg, Pa.

PEEP SIGHTS

for KRAG RIFLES—$1.50.

For Enfield $1.50. Spring Adjustable Barrel Bands 60¢. Krag Barrel Receiver Fillets 65¢. Springfield Sporter Butt Plates 60¢. Grip Caps 35¢. Satisfaction or money refunded.

LEROY RICE

316 Masonic Temple Elyria, Ohio

LOOK FOR US AT PERRY!

It's policy with us to deliver all equipment to our shooter friends just as fast as it comes in.

So—we may not have any merchandise for display, or for "on-the-spot" sale at Camp Perry. But we will be there in force to answer your questions and take future orders for shooting or hunting equipment and supplies.

Look for "Moose" Taylor, "Gene" O'Dell, "Red" Moore or "Norm" Stutz—all of us will be wearing the Geo. K. Cheatham & Co. patch on our shooting jackets.

—And may we suggest that if you need any gun repairs, rebluing or scope mountings for your hunting trips this fall that you send us your guns *before* you leave for Perry. Right now, before the heavy fall rush starts, we can take care of your needs *promptly*.

"Moose" TAYLOR

•

GEO. K. CHEATHAM & CO.

"17 years service to Sportsmen"

6330 E. Jefferson Detroit 7, Mich.

Telephone: FItzroy 4848

CUSTOM STOCKMAKING

RIFLE STOCKS $25.00

SHOTGUN STOCKS $15.00

JOHN BURNS 770 Alter St. Hazelton, Pa.

INVENTORS

The question as to whether a subject matter is patentable can be substantially determined by a search of the U. S. Patent records. Without obligation, write us for full information on what steps an inventor should take to secure a Patent or Trademark.

RANDOLPH & BEAVERS

370 Columbian Building, Washington 1, D. C.

SMALL-BORE COMPETITION IS A MODERN SPORT

A small-bore enthusiast doesn't want trophies that were designed in the days of the smooth-bore rifle. Blackinton Awards, therefore, are kept modern by the constant addition of new designs with decorative symbols in line with current styles of guns and shooting customs.

Made by shooters for shooters, Blackinton Awards are used by the majority of shooting clubs because they lack no detail that shooters want.

V. H. BLACKINTON & CO., INC.
ATTLEBORO FALLS MASSACHUSETTS

GUNSMITHS AND DEALERS

Ask the N.R.A. to tell you about its popular "Dealer Plan" for "over the counter" sales of the AMERICAN RIFLEMAN. It attracts shooter-sportsmen to your store. Counter display rack furnished. Excellent profit margin. Details and order blank sent on request.

NATIONAL RIFLE ASSOCIATION
1600 Rhode Island Ave. Washington 6, D. C.

When SPLIT SECONDS count ——get the best!

Anderson Thumb Safeties are under your thumb. Lightning speed and maximum safety. Patent applied for. Adjustable trigger pull now included at no extra charge. For Springfield, Model 54 and Mauser rifles. Bolt alterations, Engine turning. Rebluing. Scopes and mounts in stock. Prompt service. Work guaranteed.

H. B. ANDERSON 1203 Broadway Yakima, Wash.

RIFLEMEN'S SUPPLIES

Argus Super Grade Spotting Telescopes	$74.50
Freeland Off-set Scope Stands	7.50
Winchester 52 and Remington 37 Aluminum Cleaning Guides	1.50
Atlas Deluxe Shooting Mats	9.50
Plain Sheepskin Shooting Mitts	1.00
Sheepskin Rifle Covers	7.50
Sheepskin Rifle Covers with Scope Attached	8.50
Aluminum Rifle Rests	.50
Parker .30 Caliber One-piece Rifle Rods with Jag Tip	2.50
Extensions for the Freeland Scope Stand.....each	1.00
Lyman Alaskan Hunting Scope without Mounts	50.00
50-Shot Cartridge Boxes	.75
Sling Keepers, Screw Type	1.00

P. J. O'HARE
America's Largest Manufacturer and Importer of Rifle Accessories
552 Irvington Ave. Maplewood, N. J.

HOT & COLD HARDCOAT

For Your Optics

Our new ELECTRONIC process permits hard-coating of SPUN-IN lenses without removal from cells. Coating greatly increases light transmission, definition, and reduces glare. Write for details. Have your rifle scope, spotting scope, binoculars and CAMERA optics improved 20% to 50%.

OPTICAL COATING LABORATORY
5807 M St., Hillside Washington 19, D. C.

BOND DOUBLE CAVITY BULLET MOULD

ALSO NOW AVAILABLE MODEL "C" LOADING TOOLS. ALLOW TWO TO THREE WEEKS FOR DELIVERY

Send 10c for latest catalog on hand loading

MODERN-BOND CORP.
813 West 5th St. Wilmington 99, Del.

FACTORY .270 WINCHESTER CARTRIDGES, loaded with 100 gr. bullets. State price first letter. Edwin Thomsen, 1544 Elk St., Beatrice, Nebraska.

THE FOLLOWING SMITH & WESSON ITEMS: Wessons Favourite, Russian Model with Russian characters, Russian model with Turkish characters, repeating pistols 32-44 revolving rifle. H. A. Brand, 1008 Ingalls Bldg., Cincinnati 2, Ohio. 4-47

WILL SOMEONE PLEASE SELL ME SOME large rifle primers, 87 or 100 gr. 25 caliber bullets or 55 gr. .22 caliber bullets? C. G. Bailey, Richlands, Virginia.

FOR MY PERSONAL COLLECTION WANT .35 Remington automatic or slide, but am interested in any gun from $6.00 to $60.00. J. N. Fisher, Black River Falls, Wisconsin.

SEVERAL EACH FOLLOWING PISTOLS: COLTS .38 Super automatics; Detective .38 Special; Bankers .38 Special; S&W 2" barrel M&P; S&W Terriers. Need following ammunition any amounts: .25, .32, .380 and .38 Super automatic; .32-20, .44 Special and .44-40. John J. Thacker, 1116 Montana Street, El Paso, Texas.

7X57R CARTRIDGES, CEILING PRICE. HARDY T. Wooten, Box 161, Williston, Florida.

FOR GERMAN AERIAL HAND CAMERA, 80MM. film in can. Also, light yellow filter, in frame or holder, with catch. Mark A. Cooper, 100 Second Avenue, Rome, Georgia.

COLT .32 OR .380 AUTOMATIC BLUE, VERY good with ammunition. Russell Starn, 624 Duryea, Raymond, Washington.

REMINGTON LATE MODEL 81 AUTOMATIC, .35 or .300 caliber, describe fully. Ralph Dittmann, 427 Bender Road, Milwaukee, Wisconsin.

DUCK STAMPS WANTED ALL ISSUES, SEND yours for: Examination, offer. Westchester Stamp Company, New Rochelle, N. Y.

SHARPS BORCHARDT ANY CALIBER, IN FAIR or better condition. Want 52 H.B. late model, also want .410 gauge 3" shells, any size shot. Frank Heymann, Burns, Kansas.

.38 SMITH & WESSON SAFETY HAMMERLESS revolvers, serviceable, reasonable. Frank Jury, State Police, West Trenton, N. J.

POOR CONDITION MODEL 8 REMINGTON automatic any caliber, .351 Winchester, also Newton rifle. W. Dassy, Gladwin, Michigan.

EMPTY .410 SHELLS & PRIMERS, HORNET reloading tools & primers. Stuart A. Parlin, R#3, Box 95, Walkerton, Indiana.

OVER & UNDER, DOUBLES & SINGLES, FIELD & Trap guns, Mauser actions. Frank Pugliese, 1757 South Broad St., Trenton, N. J.

FAIR PRICES PAID FOR TARGET PISTOLS, revolvers, rifles and antique guns of all kinds. Ship for estimate. Public Sport Shops, Dept. R75, 13 South 16th Street, Philadelphia, Penna.

WANT .41 REMINGTON, COLT DERRINGERS, also other Derringer pistols, freaks, oddities. Robert Abels, 860 Lexington Avenue, New York 21. 1-47

SAVAGE 19 TARGET RIFLE IN VERY GOOD or excellent condition. E. B. Reynolds, Jr., Experiment Station, College Station, Texas.

LARGE RIFLE PRIMERS, BINOCULARS IN excellent condition, Mauser actions. H. D. Myers, Box 207, Hagerstown, Maryland.

20 GAUGE DOUBLE, 8X30 or 6X30 COATED Binoculars, describe. Isaac Harms Jr., Ulysses, Kansas.

6.5MM. ITALIAN MANNLICHER AND 9MM. Luger ammunition. M. D. Hoyt, Rt. #1, Warren, Oregon.

SAVAGE M99-EG, 250-3000, SOLID FRAME, Winchester M12, 28 ga. 28", full choke barrel, both guns must be in new condition. Want ammunition for, Hornet, 250-3000, 28 ga., and .22 WRF. Member. Pat Walsh, Jr., Susanville, California.

WANTED—.44-45 FRONTIER COLTS OR REMington. Robert Abels, 860 Lexington Avenue, New York 21, N. Y. 1-47

.22 SHORTS, LONG, OR LONG RIFLE SHELLS, ceiling price. George La Marr, 2205 Boardwalk, Atlantic City, N. J. 9-46

LARGE RIFLE PRIMERS NMNC, ALSO LARGE pistol primers NMNC, will pay ceiling price. H. M. Clinehens, 117 No. Main St., Sidney, Ohio.

GERMAN MAUSER ARMY SCOPED SNIPER rifles or German Sniper scopes with mounts, Varmint rifles preferably repeating bolt action or? Walter Beilstein, 16 Bennett, Pontiac, Michigan.

COLT .38 SHOOTING MASTER, PATRIDGE sights, must be perfect, unaltered. Joe Rupp, 421 College, Lancaster, Penna.

S. A. ARMY OR BISLEYS FAIR TO POOR PARTS, .45 Colts revolver ammunition or cases. Ed. Brooks, 4511-8th Avenue, Sacramento, California. 9-46

NICE GUNS, .22 REVOLVERS, AUTOMATIC Woodsman, Hi-Standard, other good automatic pistols, want Colt automatics, Colt and S&W, revolvers, nice rifles, shotguns. Air Mail details, lowest price, as will not counter offer, will reject or Air Mail Money. L. T. Gibbs, 716 Kress Bldg., Houston, Texas. Member.

WANT TWO SUPER TARGETSPOTS, REMINGton model 241, large rifle primers. Trade Match target. C. G. Bailey, Richlands, Virginia.

1890 WINCHESTER .22 LR OCTAGON BARREL very good or better. Irwin Sternberg, Box 217-S Tacoma 9, Washington.

WINCHESTER CARBINE, 1892 .25-20 MUST BE very good. Life Member. Henry Ott, R. F. D. #1, Box 38-X, Hemet, California.

OLD WORN OUT SINGLE ACTION COLT Frontier with solid ivory grip. Russell Starn, 624 Duryea, Raymond, Washington.

SCOPE AND MOUNT FOR GERMAN M43 SEMIautomatic. Winchester M70 stock, M54 rifle or carbine, M21 trap gun. P. E. Boyce, Branford, Connecticut.

SPECIMEN OF GERMAN 28-20 GERLICH ANTItank ammunition and other foreign cartridges larger than caliber 30. Have large variety of Jap ammo. to trade. John S. Diefendorf, 1212 South 13th East, Salt Lake City, Utah.

MODEL 37 ITHACA IN 20 GAUGE, MIGHT consider Winchester model 12. Earl Rice, Dallas City, Illinois.

WINCHESTER H. W., D. S., COIL SPRING; Colt .22 rifle; Sharps Borchardt. S. M. Leonard, Dell, Montana.

U. S. MODEL 1847 MUSKETOON IN FINE original shooting order. Kimball Arms Company, Woburn, Mass.

PERFECT S&W .357 MAGNUM, 5 or 6" BARREL, write details, and serial. Fred Pope, West Lebanon, New Hampshire.

WINCHESTER M21 STANDARD, F&M, 16-26", stock immaterial. Mr. L. E. Beattie, R. F. D. #1, Geneva, N. Y.

PACIFIC OR UNIVERSAL RELOADING PRESS. 30-06, .38 special, or Hornet dies. Powder measure. Barrel .257 or .270 for Model 30 Remington, very good or better. Scales, stripped Enfield receiver. David Larson, Box 1001, Visalia, Calif.

KRAG-MAUSER WALNUT STOCKS, INCOMplete Lugers, Mausers, 30-06 Pacific tools, measure. Sell-Trade Revolver: 7.62mm. Russian, 9mm. Jap, automatic; 94, 14 Jap, Czech-Beretta .380, v. g. or better. 100 @ 6.5 x 55mm. Swedish, 7.5mm. Swiss cartridges. E. Rennolds, R#4, Columbia, Tennessee.

REMINGTON 16 GAUGE AUTO SHOTGUN, .38 special and .22 pistol, price and fully describe in first letter. R. A. McBride, 513½ No. Bois D'Arc, Tyler, Texas.

AMMO. FOR 8MM. JAP NAMBU AUTO PISTOL; also barrel, good or better, for 1873 Winchester, .32-20. L. E. MacFawn Lt. (JG) USNR. VT-18 C-of-F. P. O. New York, N. Y.

WOLLENSAK, STANDARD ACHROMATIC telescope, 25 power, with tripod, must be excellent inside and out. Member. Pat Walsh, Jr., Susanville, Calif.

LUGER AMMO. 7.65 or 9MM. 10 GAUGE SHOT, shells, also excellent barrel for 16 gauge Belgian Browning auto. for cash or other sporting ammo. Write. H. Folz, 84-24 86th St., Woodhaven 21, N. Y. C.

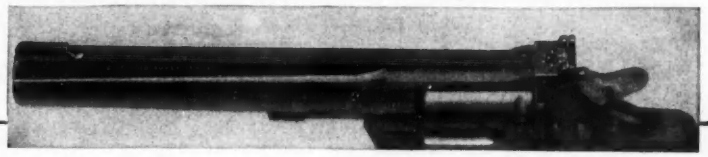
MAUSER 98 ACTIONS COMPLETE OR PARTS: 30-06, 45 C. A. 30-40 Krag M. I. 30 caliber carbine ammo. State condition, price: Flaig's, Millvale, Penna.

SCHMITT MODEL 24, OR WILL BUY DIES separately. William Marble, 11 Miquon Road, Conshohocken, Penna.

LOADED 30-06 ISSUE AMMUNITION, NEW empty primed 06 issue cases. FA rifle primers. Give date of cases and ammunition, amount you can furnish and price. Lindahl Gun Company, Central City, Nebr.

EXCELLENT ZEISS ZIELVIER, ZIELSECHS, large rifle primers, price secondary. Will swap small pistol primers. S. C. LaPlace, 14320 Grevillea, Lawndale, Calif.

KING RIBS AND SIGHTS ARE BACK!



King's famous sights and accessories are once more ready for you.
King's sights and gunsmithing still pay off in greater accuracy, better shooting.

ABOVE: King Ventilated Rib with reflector front sight and adjustable rear sight for most S.&W., Colt and Hi-Standard revolvers, $25. Semi-Rib for most revolvers and pistols, $15. With King Ramp Front Sight, $20.

"Cockeyed" Hammer, also shown above, for Colt S. A. Frontier, $9.50; for other guns, $7.50. Send hammer only.

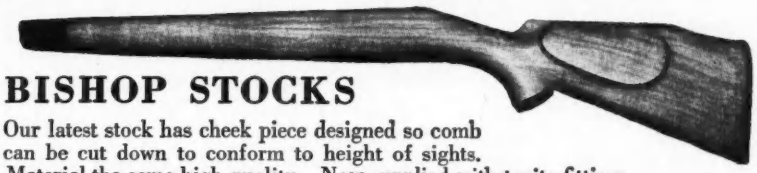
BELOW: King Ramp Reflector Sight gathers light for bead or post. Perfect for wooded country, $7.50.

SEE YOU AT CAMP PERRY!

KING GUN SIGHT COMPANY

667 Howard Street · · San Francisco 5, California

Have you seen the KING-Pike quick detachable mount for telescopic sights? Write for folder E.



BISHOP STOCKS

Our latest stock has cheek piece designed so comb can be cut down to conform to height of sights. Material the same high quality. Now supplied with tenite fittings. For all bolt actions. Price $6.00. Mannlicher type $8.50. Shipping weight of stock, 4 pounds. Catalog ready.

E. C. BISHOP & SON **Warsaw, Missouri**

SUPPLIES for SHOOTERS

Niedner Checkered Steel Butt Plates—sharp machine cut checkering—case hardened for durability—5 1/8" x 1 9/16". $2.00 each. Quantity discount to dealers. (For illustration see ad in April Rifleman.) We also have a large stock of Lyman and Redfield sights, reloading tools, bullet moulds, telescope sights, books, and many other items of interest to gunsmiths, handloaders, and shooters generally. Write for your free copy of our up-to-the-minute list of items in stock.

NIEDNER RIFLE CORPORATION

Dowagiac Michigan

CLARK SPEED ACTIONS

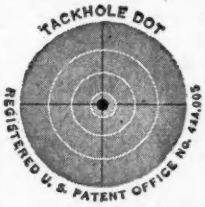
HELP! HELP!

I'm snowed under! I was caught unprepared for the sudden onrush of rifles during past three months. Am now taking time out to remodel and enlarge my shop to make more efficient use of my time. Hope to again be giving fifteen days service on speed action jobs which I have always tried to maintain. Please send no more rifles until September fifteenth. Still making prompt delivery on Weaver K scopes and Stith mounts.

KENNETH CLARK **Madera, Calif.**

TACKHOLE DOT

K 2.5 Weavers, $46.50; K 4, $52.00; Alaskans, $62.50. All coated lenses, TH Dot equipped. Immediate shipment from stock. However, no customer's scopes can be fitted until after September first, as am going to a shoot myself and want a rest. New scope orders will be shipped promptly during my absence. Thanks a million for allowing me a vacation!



T. K. LEE

P. O. Box 2123 Birmingham 1, Alabama

SERVICEMEN REPORT NO RUST AFTER . . .

4 yrs. in damp basement
3 yrs. in car trunk
3 yrs. in Alaska

A gun RIGed for temporary storage back in 1936 and lost for 10 years was found without a spot of rust in 1946. RIG, the original oil-like grease, is time tested—gives complete protection in moist tropical climates and salt sea air. For daily use or storage! Your guns deserve the best—buy RIG at your gun dealer. (Tubes 25¢, ¼ lb. can 50¢, 1 lb. can $1.50.)

Write for FREE "Gun Care Guide."

RUST INHIBITING PRODUCTS

5646-R Lake Park Av., Chicago 37, Ill.

NATIONAL RIFLE ASSOCIATION WASHINGTON, D.C. OFFICIAL

SEND FOR FREE New Illustrated Folder & Price List

Official N.R.A. Targets LITHOGRAPHED

LOOK FOR THIS SEAL

To learn to shoot accurately, always aim your gun at an Official N.R.A. Target. These precisely gauged targets train hand and eye, give correct scores. Yet Official N.R.A. Targets cost no more.

- Nonglare bull's-eyes
- Crisp white rings
- Sharp, clean bullet holes
- Positive uniformity

NATIONAL LITHO CO. 1255 25th St., N. W., WASH., D. C.

BLU BLAK

Lynx Line

"TAKES CURSE OFF GUN-BLUING"

We ask every gunsmith in America to know . . . by use . . . how well this new and better process can serve him.

The ease of handling will amaze . . . and the 40-degree range (260° to 300° F.) will delight you. Set it at 275° F. . . . put in the "work" . . . forget it until "done".

You will use 7 lbs. of chemicals to each gallon of water. Results will be TOPS in gun bluing.

Order a 10-lb. Unit, $5 . . . or a 30-lb. Unit for $13 . . . plus 5 lbs. DENSITE (the additive for high-carbon steel) for $3 . . . delivered.

BLU-BLAK is the long-life . . . trouble-free, unconditionally guaranteed bluing process especially designed for gunsmiths.

◇

PROTECTIVE COATINGS, INC.

Box 3985 AR, DETROIT 27, MICH.

Now owner of the JOHN CROWE Ventilated rib PATENT.

Ribs installed on any type SHOTGUN

All work GUARANTEED

Place your order now

MONEYMAKER'S GUNCRAFT

4909 No. 42 Street Omaha 11, Nebraska

ARMY CLOTHING BARGAINS FOR SPORTSMEN & WOMEN

ARMY blankets, all wool, app. 70" x 80", 4 lbs., guaranteed perfectly like new	$6.75
MEN'S raincoats, new U.S.N. issue	6.50
ARMY shirts, new, all wool worsted	5.95
MEN'S new olivkin hats	1.25
MEN'S army slickers, good condition	2.00
MEN'S new wool knitted caps	.79
LADIES' poplin raincoats, U.S.Wac, removable wool lining, hood, like new	7.50
LADIES' moleskin coats, new, olive green, ¾ length, sheepskin lining, fur collar, double-breasted, slash pockets, set-in sleeves, inserted wool wristlets, Army nurse's issue	13.95
CALIFORNIA beach towels, all cols. 36" x 72"	2.25
LADIES' waists, new, navy blue gabardine	2.49

SATISFACTION GUARANTEED

N. Y. CLOTHING CO., Dept. AR

2079 Second Ave., New York 29, N. Y.

A TOOLSHOP IN YOUR HAND!

Smooth, steady power at your fingertips! HANDEE uses 300 different accessories, such as a special mounted grinder that fits inside large-size primer pockets to clean out the hard-caked residue, for routing gun stocks, grips or blanks, scoring, grooving or fluting, matting or mottling metal.

HANDEE TOOL OF 1001 USES

Plug Handee in any AC or DC socket to grind, drill, polish, rout, cut, carve, sand, saw, engrave, etc. 25,000 r.p.m. Wt. 12 oz. In steel case with 45 accessories, postpaid, $25.00. *Handee only, $18.50.*

ORDER NOW! SATISFACTION GUARANTEED

FREE! New 52 page MANUAL

CHICAGO WHEEL & MFG. CO.

1101 W. Monroe St. Dept. AR

Chicago 7, Ill.

FOR SALE: THIS SPACE AT LOW COST

A display ad of this size measures 14 agate lines or one inch. It costs $14.70 per issue if less than six insertions are used within one year; $13.30 per issue for six or more insertions in a year; only $11.90 per month for twelve consecutive insertions. THE AMERICAN RIFLEMAN circulation is now well over 105,000 copies monthly. We will be glad to help you in writing "copy," making "lay-outs," etc. No charge for this "service," of course. What is your product?

GUNSMITHING

By master gunsmith. Restocking of High-grade Shotguns and Rifles, Repairing. Rebuilding Army Rifles to Sporters. Rebluing.

F. ZINK, 1472 Myrtle Ave., Brooklyn 27, N. Y.

WINCHESTER MODEL 70, 30-06 IN EXCELlent to perfect condition. G. W. Beane, 806 Alice Street, Modesto, California.

EMPTY CASES IN FOLLOWING CALIBERS, 32-20, Hornet, 7.62 Russian, 44-40, .45 Colt, .44 Special, 250-3000, Bullet in .22, .25, .30, and .32 caliber. Will buy or trade, what do you need. Jack Alves, Box 404, Manchester, Connecticut.

KRAG, MAUSER, BINOCULARS 6 x 30 OR BETter. 8mm. cases, bullets. E. L. Rogers, Harvard Street, Wenatchee, Washington.

ELABORATELY RELIEF ENGRAVED INLAID German shotguns in any condition. Geo. Schmeling, Germantown, Wisconsin.

WINCHESTER .33 GOOD TO VERY GOOD, ADvise price and details. Bob Wolff, 10700 Parnell, Hales Corners, Wisconsin.

ENFIELD RIFLE OR ACTION, NO DRILLING; excellent single shot .22 L. R.; Zeiss 7 x 50, 7 x 35 or 8 x 40; .257 rifle; 330; Krag; Super Argus; large primers. Joe Warnisher, Lewistown, Montana.

HAMMER, TRIGGER, HAND AND HAND spring, and bolt for Colt S. A. Army .45. A. W. Hjort, 451 South Santa Fe, Salina, Kansas.

EXCELLENT K22 OR OMT.22, HB 52 OR 37, SAA 38-5½ Write. Harold Armstrong, State College, Penna.

PARKER 28 GAUGE DOUBLE BARREL, V. H. E. grade or better, in good or excellent condition. C. F. Wright, 724 Sherland Bldg., South Bend 9, Indiana.

9.3x 74R DWM CARTRIDGES OR CASES. GERman scope mounts. German quality O&U shotgun. .22 to 6.5 caliber Mauser ribbed barrels. Engraved commercial Mauser actions and rifles. T. J. Harman, 212 Front St., York, Penna.

MAUSER, SPRINGFIELD, KRAG AND ENFIELD actions and spare action parts. Also Krag Military carbine or rifle stocks in good condition. Give prices in first letter. Cash or trade allowance on Sukalle Heat-treated barrels fit to your action or rifle in .22-250, .220 Swift, 250-3000, .257 Remington, .256 Newton, .270 W. C. F. or 30-06. No barrel blanks furnished. W. A. Sukalle, 1120 East Washington St, Phoenix, Arizona.

FOLLOWING AUTOMATIC PISTOLS; .45 GRANT Hammond, .45 Walther HP, .45 Chinese Mauser, 9mm. Finnish Lahti, Walther 9mm. MP and military hammerless model, Swiss 1943 Browning, 7mm. Jap Baby Nambu, 9mm. Llama M-X1, or any other odd or rare automatic pistols. Sid Aberman, 5650 Marlboro Road, Pittsburgh, Penna.

9.3 x 74 SHELLS FOR KRUPP RIFLE, ANY number. Arthur A. Meyer, 9180 Sorrento, Detroit 27, Michigan.

TWO PARKER SHOTGUNS VH GRADE, 12-28 or 30 and 16 or 20 gauge 26 or 28. Describe fully. Life Member. Lon S. McCoy, 3835 Wilshire Blvd., Los Angeles 5, California.

REMINGTON MODEL 25 .32-20 RIFLE OR carbine. Savage model 99EG 30-30, very good. Bartlett Bankston, P. O. Box 1601, Denver, Colorado.

WINCHESTER 75 SPORTER, WOODSMAN, W70 any caliber. Colt S. A. Details please. Henry McGarity, 749 Virginia Ave., N. E., Atlanta, Georgia.

LARGE AND SMALL RIFLE PRIMERS USED loading tools and moulds, cartridge cases any size or quantity. Single shot rifles, describe fully with lowest price first letter. Edward Larralde, 4800 Hampton Road, La Canada, California.

P.38, NEW, 200 WESTERN HOLSTER, EXTRA magazine $55.00. Sauer 7.65 pocket hammerless 35 cartridges $30.00. Mauser rifles, issue $40.00. also custom converted sporting ammunition. Want 3 barrel combination or model 12 ribbed. Write. Milvern McDougall, Burlington, Iowa.

.22 HORNET AMMUNITION. ARTHUR PULscher, Flandreau, South Dakota.

.425 LILLIPUT AUTOMATIC. WILLIAM A. Taylor, 760 Excelsior Avenue, Akron 6, Ohio.

TRIGGER PLATE FOR 9MM. LUGER; 9MM. Luger ammunition; 7.65mm. (32 cal.) automatic ammunition. D. W. Bradbury, 511 Main St., Seneca, S. Car.

MANNLICHER-SCHOENAUER 30-06 OR 7 X 64mm. caliber excellent condition, examination privilege. Frank Klima, 4162 Lovett, Detroit 10, Michigan.

AMMUNITION, AT CEILING PRICE. 6.5 Mannlicher, 6.5 Italian, 8 x 51 S. P., 9, 3 x 72R, 32-40, 38-55 and .25 Stevens. The Green Store, No. Haverhill, N. H.

DEER RIFLE, 25-35 to .300 MAGNUM; PUMP or auto. shotgun, 20 to 12 gauge; .22 target pistol, all good or better. State price and condition. J. Steinberger, 1005 W. Locust, Centralia, Washington. Member.

SCOPES, BINOCULARS SIGHTS & CAMERAS

GERMAN SNIPER SCOPES, ZEISS, FACTORY new, 4X, 30mm. tube, leather lens covers, $25.00 postpaid. George V. Harry, Benld, Illinois. 10-46

BINOCULARS CLEANED, REPAIRED AND lens-coated. Alignment corrected to 1/1000 on our special collimator. Send for our leaflet "These Hard-Coating Jobs." Mail your glass for estimate. Established 1925. Mirakel Repair Co., Mount Vernon, N. Y. tf

BINOCULAR TRADING POST, LATEST MODels (coated): All B&L binoculars currently available; Sard 7 x 50 $162.00; Universal 6 x 30 $85.00, all plus tax. Argus Super-Grade Spotting Scope 20 x 55 $74.50, carrying case $15.00, Argus tripod $8.50, all net. Liberal trade-in-allowance. We buy, sell, and trade reconditioned binoculars. Send for list and booklet "The Use and Care of Binoculars." Mirakel Repair Co., Mount Vernon, N. Y. tf

BINOCULAR, FIELD GLASSES, REPAIRED, ACcurately aligned by collimator, prompt service, mail instrument for estimate. Cash paid for broken binoculars or parts. Rochelle Optical Company, Dept. #1, 28 Cliff St., New Rochelle, N. Y. tf

LEATHER LENS COVERS FOR ANY SCOPE, regular $1.50; Stith mounted $1.75, at your dealer or prepaid by Hicks and Morris, Box 408, Clovis, New Mexico. tf

THE ORIGINAL SIGHT-EXCHANGE, BOX J, Paoli, Penna. Gun Sight Specialists. Mail us your old sight and tell us what you want. 2-47

FOR SALE—LYMAN FIELDSCOPE, FAIR TO poor, click mounts, $17.50. B&L Drawtube, good, $37.50. Money order please. J. C. Jarvis, Rt. #1, Sylvania, Ohio.

ZEISS DELTRINTEM 8 X 30 CENTRAL FOCUSing coated lens optically perfect slight bluing wear hard leather case, $135.00. Ralph A. Merkner, Rt. #2, Box 910, Fontana, California.

60 POWER TELESCOPE, $2.95. 250 POWER microscope, $2.45. Also bargains in binoculars and surplus lenses. Send for free catalog. Brownscope Company, 24 West 45th Street, New York. 6-47

4X DIALYTAN SCOPE #74882 EXCELLENT $37.50. S. A. Wentling, Palmyra, Penna.

46MM. MOVIE CINE KODAK MODEL "B" F:3.5 lense. First $53.00 money order takes. J. T. Baker, 1316 East Thomas St., Pasadena, Texas.

ONLY TWO WEEKS REQUIRED FOR COATING your binoculars, rifle scopes, field glasses and other precision instruments. Write today for complete information. Mitchell Optical Company, 224 East Monroe, Kirkwood 22, Missouri.

HENSOLDT 7 X 50 MARINE DIALYT-CENTER focusing lightweight prism binocular, condition like new, priced at $185.00. Carl Zeiss 7 x 50 German military binocular tinted lenses, excellent condition, individual focusing $175.00. Tank binocular-prismatic German military type, size 10 x 80, weight 25-lbs., glasses exceptional fine quality, can be used on boat or any place where they will be made stationary, value $750.00, price $175.00. Rifle telescopes Weaver 330 brand new $29.50. Forward money with order. No C. O. D. shipments. Public Sport Shops, Dept. R75, 13 South 16th Street, Philadelphia, Penna.

B&L 55MM. NRA SPOTTING SCOPE WITH extra 36x eyepiece, new Freeland stand and leather case; optically perfect, $85.00. F. S. Fickett, 232 Fowler Avenue, San Francisco 10.

ZEISS ZIELVIER AND GOERZ 4X SCOPES new crosshairs and bluing $75.00 and $50.00. R. W. Snyder, 1 Barney Street, Schenectady, N. Y.

BINOCULARS, ZEISS 7 X 50, UNUSED, COATED lens, $130.00; Leonard Fondiller, Apt. 15C, 915 West End, New York, Mo. 2-7589.

CUSTOM MOUNT RINGS, FIT LARGE EUROpean scopes to your Redfield Jr. base, $12.00. Reserve German mounts reblue tube, $10.00. Schmidt & Davis, 3347 San Fernando Road, Los Angeles 41, Calif.

PRE-WAR HENSOLDT NACHT-DIALYT BINOCulars 7 x 56 I. F., with case v. g. to excellent $200.00. Post war Wollensak 6 x 30 I. F. coated with case, excellent to perfect $75.00. Money orders please. W. F. Brower, Life. 22 No. Hanover St., Pottstown, Penna.

BINOCULARS, 8 X 32 AJKAS-LUX, C. F. OPTIcally perfect, just overhauled Mirakel, beautiful glass, case. First M. O. $100.00. F. Tarantino, 2915 LaSalle Ave., Bronx, New York.

TELESCOPE CARL ZEISS JENA 12X; 20X; 40X Asembl. 50cm. exit lens, tripod, terrestrial extension, chest; condition very good lenses perfect brilliant cost $550.00 sell $475.00. Col. Frank W. Halsey, 353 Garrity Road, San Antonio 2, Texas.

BINOCULARS: B&L TYPE 6 X 30 I. F. WITH case, special $37.50. First 100 money orders. No COD. Excellent Dienstglas featherweight by Zeiss $125.00, by Hensoldt $125.00. Write for list. Louis Domingues, 3501 Asbury, Dallas, Texas.

10-X RIFLEMEN'S COATS and GLOVES

10-X Imperial Rifleman's Coat, leather covered pads	$12.00
10-X Aristocrat Rifleman's Coat, leather covered pads	10.00
10-X Rifleman's Glove, finger model	3.00
10-X Imperial Skeet and Trap Shooting Jacket	8.00

No catalog will be published until the market is more stable and we are sure about prices and quantities of materials. Prices subject to change without notice.

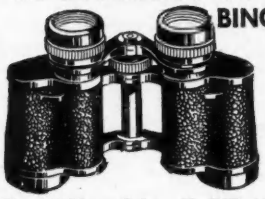
See your dealer first. If he can't supply, order direct from factory, giving your dealer's name when you order.

10-X MANUFACTURING CO.

Howard Smith (Capt Sig C inactive)

307 ELEVENTH STREET — DES MOINES 5, IOWA

U. S. ARMY & NAVY BINOCULARS



6 x 30

$75.00 *Value*

Only $37.50 *with Case*

First 100 Money Orders. No COD shipments. Write for list of new & used, 6 x 30 to 10 x 50. German Army 10 x 80 Observation Binoculars in chest, with tripod and attachments, $225.

LOUIS DOMINGUES

3501 Asbury — Dallas 5, Texas

HIGH SCORES

are the result of good equipment, and the arm cuff is just as important as sights. You owe it to yourself to try the **SLING-EZE Arm Cuff.** It is comfortable, easy to install, adjustable for arm size and will not slip. Can be furnished for right- or left-handed shooters. The cuff is 3½" wide. **Price $2.85. With Brass Buckle $3.25. Hand Tooled Leather $2.00 extra. For $4.50 your name can be engraved. Sling with black or brass buckle is $2.85.** Write for circular. Also sold through authorized dealers.

B. L. MYERS

Second Unit Santa Fe Bldg. — Dallas, Texas

.35 WHELEN CUSTOM RIFLES

Built to order by a specialist in the .35 Whelen caliber. Precision-made, 8-groove, 12" pitch barrels. Deluxe stock and action work. Reasonable delivery schedule. $125.00 and up. Cartridges available.

O. H. ELLIOTT

528 Webster St. — Traverse City, Michigan

BRASSARDS

EMBLEMS—PENNANTS—BOOK MATCHES

GEORGE O. WOOD • 124 ONTARIO ST., LYNN, MASS.

BARGAIN: EXCELLENT 10 X 30 GERMAN binoculars, hard coated lens, $67.50. Turpin, 3225 Spottswood, Memphis, Tennessee.

GWZF 4 #36922 SNIPER SCOPE, NEW $25.00. Gerare scope and mounts 5X. Model G. Dot reticule, very good $35.00. Litschert 4X Eagle scope. Lee Center Dot, new $65.00. Lyman Alaskan, All Weather, coated lens, as new, $45.00. Stith 11-/ mounts for 330-70 & 99, new $9.00. Fecker 1-½" obj. 8X W. Tn ¼" mounts, Lee #2 Ret. Rec. absorber, excellent $60.00. Claude G. Kaelin, Life Member. Buhl, Idaho.

ROTARY FILES

Gunsmiths, machinists, woodworkers and home craftsmen. Here is your chance to buy those rotary files you need at a fraction of new cost. High speed steel. Ground from the solid after hardening. Shanks are ¼" diameter. Consist of both new and used, with the majority being new. Satisfaction guaranteed or your money cheerfully refunded.

Ass't of ten cutters, small sizes, $3.50 postpaid. Ass't of ten cutters, medium sizes, $5.00 postpaid. Ass't of ten cutters, large sizes, $7.50 postpaid. Ass't of ten cutters, small, medium and large sizes, $5.00 postpaid. Ass't of fifty cutters in small, medium and large sizes, $22.50 postpaid. This is a very complete assortment and would cost considerably over $100 at present market prices, as they run from $1.50 to $5 each.

MACHINE COUNTERSINKS. High speed steel. 78 and 82 degree. These have been used, but all are in good serviceable condition. Assortment of ten in five sizes from ¼" up, $2.00 postpaid.

SMOKELESS POWDERS: Hercules Hivel No. 2, 2400, Lightning and Sharpshooter, $1.60 lb. Unique, Bullseye and Red Dot, $1.00 per ½ lb. The DuPont Company have been out of containers to pack their powders into. We hope to have all of their powders in stock some time in August.

CASES, 8 x 57 mm. Mauser rimless, empty unprimed. Made from 30-06 cases. 7¢ each.

We are sold out on all sizes of chilled and drop shot and on the No. 209 Shotgun primers. We do not have any kind of pistol or rifle primers to offer.

LINDAHL GUN COMPANY

Reloading Supplies

CENTRAL CITY — NEBRASKA

Sportsmen's Specials

PERCUSSION CAPS

REMINGTON SHUR FIRE #11 — $2.50 PER 1000

REMINGTON #57 SHOTGUN SHELL PRIMERS, $5.00 PER 1000

DROP SHOT #4 or #5 TO RELOAD SHOTGUN SHELLS, 25 LB. BAG $4.95

RECOIL BOOT

All Rubber U. S. Gov., Slip on type for shotgun and rifle. — $1.00 EACH

PUBLIC SPORT SHOPS

13 S. 16th St., Phila. 2, Pa. — No COD's

"PACIFIC" RELOADING TOOL

More Than 10,000 In Use

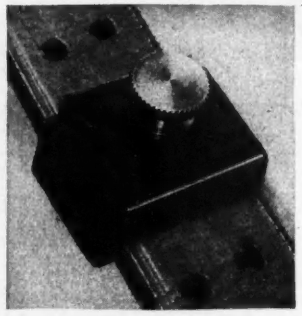
You must have something good when you have that many satisfied customers. You too will be a "Pacific" booster as soon as you have loaded a hundred shells.

Super Tool with automatic priming device.... $36.50
Super Tool without automatic priming device. 32.50
Super Tool, frame only..... 17.50
Standard Reloading Tool..... 22.50
(Same dies and attachments are used on both tools)

IMPORTANT—Due to the tremendous number of orders received for "Pacific" Tools, there may be a delay in delivery.

PACIFIC GUN SIGHT CO.
353 Hayes St., San Francisco (2), California

PACIFIC GUN SIGHT CO.



KEEPER "3100" IS BACK!

Back on the job of keeping rifle slings locked tight without marking the leather, "3100" still doing a good job.....$0.90

WORLD FAMOUS PARKER-HALE CLEANING RODS AND BRUSHES

A good solid stock of these fine implements for discriminating shooters who desire full protection for fine arms. The best job of cleaning—the rod with the steel core and protective coating.

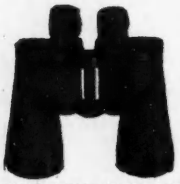
RIFLE AND TRAP SHOOTING COATS

We are getting limited deliveries on 10-X Rifle and Trap Shooting Coats—as rapidly as production allows, we will have full stocks at all times.

SCOPES—MOUNTS—SIGHTS—LOADING TOOLS

Just as rapidly as we can fill our stocks, we are getting better equipment to give complete service to shooters. Keep in touch with us.

WISLER WESTERN TARGETS
543 CLAY STREET SAN FRANCISCO 11



U. S. NAVY 7 x 50 PRISM BINOCULARS

Only $99.00
POSTPAID

THE WORLD'S FINEST BINOCULARS

These super binoculars are the official choice of our Armed Forces because of their amazing all-around performance. They have all the latest improvements such as waterproof bodies and hard coated lenses giving brighter, clearer images than any prewar binoculars. The Government has released only a few of these fine glasses, and this is your opportunity to buy one at far below the regular price. These glasses are new, not used. As only a small number are available we will fill orders on a first come, first served basis, and will return immediately all remittances that arrive too late. These binoculars are sold with a satisfaction or money refunded guarantee. Only $99.00 postpaid, plus Federal tax (20%). Act now as these fine glasses will probably never be available again at so low a price.

BROWNSCOPE CO.
Dept. 8A, 24 West 45th St., New York 19, N. Y.
TELESCOPES • BINOCULARS • MICROSCOPES

SKEET-KAP

The Only Cap Designed Especially for Shooting

Ideal for hunting, fishing and all outdoor sports.

The square, 5" bill completely kills glare and affords protection against sand, dust, elements, etc. Designed, tested, proven by Airforce gunners. Made of durable, regulation Army cotton twill in Red and Khaki; washable, colorfast. See your dealer or order direct. Check, money order or C.O.D. acceptable. Send hat size.

$1.59

Dealers! Clubs! Write for Special Prices!

GUN CLUB Outdoor Sportswear
P.O. Box 477 Des Moines, Iowa

Cramer Bullet Mould Company

Manufacturer of

BULLET MOULDS
2-3-5-10 CAVITIES
SPECIAL CHERRIES
Heavy Duty Lead Dippers
Cramer Pressure Lead Dipper

Send Stamp for Descriptive Literature

11232 Chandler Blvd. North Hollywood, Calif.

Minute Man* GUN BLUE

INSTANT "BLUE STEEL" GUN FINISH

Not a Paint-Not a Lacquer

MAGIC COLD CHEMICAL Restores finish on 5 Guns. No heating! Can't injure steel. Simple process. Takes minutes.

$1

GET Free descriptive circular

NEW METHOD MFG. CO.
Box ARM164 Haw Mathed Bldg., Bradford, Pa.

FECKER 1-¼" TARGET SCOPES, $60.00; WEAVER K-4, $44.00, K2.5, $38.50; 1X for shotguns, $20.35, Lyman Alaskan, $50.00. Free leather lens covers with scopes. Weaver, Stith and Redfield mounts. New B&L zephyr weight binoculars. Advise your wants. F. Robert Kreider, Palmyra, Penna.

BINOCULARS 10 X 80MM. GERMAN SUN shades, individual focus, filters built in, optically excellent, with adjustable mount, $250.00. Want 52 sporter perfect, M. S. Lee, 2444 Portland, Minneapolis, Minn.

YOU SHOOTERS THAT HAVE TO WEAR glasses are cheating yourself out of higher scores, if you are not using the "Owens Clear Target Adapter Lens." Send your latest optometrist or oculist prescription (sighting eye only) and the rubber eyepiece from the back of your telescope sight. I'll install your correction and return with complete instructions. Can mount on most metallic sights, also clear lens $7.50, Ray Ban $8.50. C. O. D. or cash with order. Orders filled in rotation received. W. L. Owens, Optician, Box 262, Zanesville, Ohio.

PRE-WAR ZEISS MILITARY 7 X 50 I. F. coated lens, case, excellent inside, v. g. outside $110.00, Westinghouse 6 x 30 I. F. Bausch & Lomb Lens, no case, new condition, coated lens $65.00. K. T. Hansen, 128 Hillcrest Avenue, Cranford, N. J.

BINOCULARS, 6 X 24 ZEISS $55.00. UNIVERSAL 6 x 30, others as available. Rifle scopes. Factory new small, steel fireproof safes security chests. Specify your wants. Langguth, Taggart Street, Boise, Idaho.

CINE KODAK SPECIAL WITH 1" F1.9, W. A. F2.7, 4" F2.7, 4½" F4.5, adapters, extra magazine, filters, special case, tripod, all perfect, $1,000.00 fob. J. D. Marks, 77 Fairview, Stamford, Connecticut.

1½" 10X FECKER, MEDIUM CROSSHAIR, Lyman mount, ¼ minute, bases, very good $50.00. F. E. Smith, Box 487, Artesia, N. Mexico.

TWO SEMI-SCOPES $10.00 EACH. STATE which Lyman or Redfield front. Made 10X possible 200 yards with semi-scope on Winchester 61 crosshair insert. For "Any Sight" competition only. Find crosshair insert more accurate with any receiver or peep sight. Send your inserts; will install crosshair $2.00. Ralph Plant, Florence, Colorado.

GERMAN LEICA, 35MM. LEITZ ELMAR 3.5 lens, built-in range finder, chrome finish, case, all new and perfect $290.00. German Lixtus exposure meter, excellent, $15.00. E. J. Salisbury, Cranberry Lake, N. Y. Member.

GUNSMITH'S SERVICES & SUPPLIES

MODERN ARMS PROMPTLY AND SKILLFULLY repaired. Fine Stocking and checkering. Moderate prices. Send work express prepaid. Kimball Arms Co., Woburn, Mass. tf

GENERAL GUNSMITHING: RESTOCKING, REbluing, gold, silver, chromium plating, we make parts for foreign and obsolete guns. Scaramuzzo, 601 South Halsted, Chicago 7. 3-47

A NEW STOCK FINISH BY BISHOP CONSISTing of one container for filling grain and one container of the finest oil finish, $1.10 per set postpaid. E. C. Bishop & Son, Warsaw, Missouri. tf

ARTISTIC ENGRAVINGS ON FINE GUNS: Game scenes in relief; gold inlay, scroll work, etc. Folder on request. A. Griebel, 4724 No. Keystone Ave., Chicago 30, Illinois.

GUNSMITHING: REBARRELING, BUHMILLER barrels exclusively, Wildcats a specialty. Chambering reamers made your design or standard. Wilcox Machine Shop, 37 Watts Street, Towanda, Penna. tf

CURLY MAPLE, CHERRY, AND WALNUT stock blanks. L. G. Stockberger, Garrettsville, Ohio. 10-46

BOOKS FOR THE ADVANCED OR BEGINNING Gunsmith: Elementary Gunsmithing by Frazer, $2.00. Advanced Gunsmithing by Vickery, $4.00. Modern Gunsmithing by Baker, $4.50. The Modern Gunsmith by Howe, $15.00. Firearms Bluing by Angier, $2.50. Gopher Shooters Supply, Faribault, Minnesota. tf

GUNSMITHING, REMODELING, REBLUING. J. A. Bibey, 122 South Lincoln, Roseville, Calif. tf

PACIFIC PRESSES AND DIES: IMMEDIATE shipment out of our close out stock. All dies $12.50. Presses $10.00. .219 Zipper, 250-3000, 25-35, 25-20, 7mm. Mauser, 30-30, 351, 35 Remington, 35 Winchester, 33 Winchester, 32 Winchester special, 300 Savage, 303 Savage, 303 British, 38-40, 348, 44-40, 45ACP, 35 Remington shell trimmer. Ned Kailing, 8026 North Division Road, Milwaukee 9, Wisc. 8-46

GUNSMITHING, RESTOCKING, REBLUING, 98 Mauser's converted to fine sporters, prices reasonable. Martin's Gun Shop, Fairlee, Vermont. 10-46

NEW 30-06 SPRINGFIELD OUR SPECIALTY. Order now for delivery in time for hunting. Springfield actions changed from right hand to left hand, Krag to three shot sporter, rebluing, telescope sights sold and installed on any rifle. Nydar shotgun sights sold and installed; also peep sights. Naval Company, Doylestown, Penna. 10-46

BISHOP STOCKS CAN BE HAD FITTED WITH Mershon whiteline recoil pads instead of tenite butt plates at $4.00 extra. E. C. Bishop & Son, Warsaw, Missouri. tf

RIFLE AND GUNSTOCK BLANKS IN FOLLOWing woods: American Walnut cut from crotch and stump figure. Circassian Walnut (mostly straight grain), Bird's Eye Maple, fancy mahogany. Extra fancy Oregon Myrtle, beautiful figure. Wholesaler with sawmill supervision insuring right grain in grip. Cheapest prices obtainable. Special inletting service to gunsmiths. D. W. Thomas, P. O. Box 184, Vineland, N. J. tf

BLUING is our BUSINESS

—not a sideline
FANCY GOLD, SILVER, & NICKEL PLATING, BLUING SALTS, GRIPS, RESTOCKING
GUN REBLUE CO., Fletcher 1, North Carolina

CUSTOM INLETTING; SATISFACTION GUARanteed. Trades considered. Write for quotations. Frank's Gun Shop, Box 983, Clovis, New Mexico. 10-45

CHECKERING TOOLS, HANDMADE BY CHECKering expert. Set of three-checker, border and cleaner; also directions, complete $2.75 postpaid. Warner Products Co., Baldwinsville, N. Y. tf

CHRISTY GUN WORKS, 874 57TH STREET, Sacramento, California. tf

AMERICA'S ORIGINAL BLUING HOUSE, Fletcher 3, No. Car. Personalized Bluing Service. Nickel, silver, goldplating. Tested bluing materials. 12-46

THE GUN RACK: REBLUING SPECIALISTS, stock refinishing, military conversions, work guaranteed, prompt service. 441 El Camino Real, Menlo Park, California. tf

YOUR 99 SAVAGE ALTERED TO 300 CALIBER. Bluing, rebarreling. Bayer's Gun Shop, Walla Walla, Wash. tf

BINOCULARS, SCOPES REPAIRED, HARD coatings applied, camera lenses a specialty. Life Member. Gene Hudgins, 3443 Sheffield Avenue, Phila. 36, Penna. 8-46

CUSTOM GUN RESTOCKING, CURLY MAPLE, walnut, prompt service, write before sending guns. Hal Hartley, Rt. #4, Lenoir, No. Car. 1-47

CHAMBERING REAMERS, VISES, DIES, Wright ramps, other supplies, list. Wright's Gun and Tool Shop, Bloomsburg, Penna. tf

TO LOVERS OF FIREARMS AND THEIR ACcessories, old and new—you should belong to The Ohio Gun Collectors Association. Address T. W. Brown, Secretary, 332 Second St., N. W., Canton, Ohio. tf

HIGH QUALITY RESTOCKING AND REBLUing of all firearms. I also convert military rifles to any caliber using DuMond barrels. Write for prices and delivery date. Ken Bucklin, 87 No. Elm St., Manchester, Conn.

ANTIQUE ARMS REPAIRED AND SPRINGS made. Also do bluing and old style browning. Moderate prices. Send work express prepaid. Kimball Arms Company, Woburn, Mass. tf

I DUPLICATE ANY GUN OR RIFLE STOCK ready for fitting, $5.00. Dave W. Thomas, Vineland, N. J. tf

STAR BLUING SALTS — OUR PERFECTED product by America's original bluing firm. Single tank—fool proof (use kitchen stove). Use indefinitely. Pistol size, $2.95; shotgun, $4.95, Gunsmith's, $11.95. Finishing oil, $1.45. Tanks, $3.95-$4.95. Precleaner, $1.45. Finest bluing, nickel, silver, gold plating. Gun Reblu, Fletcher 2, No. Car. 12-46

CHAMBERING REAMERS, IMMEDIATE DElivery on 30-06 and .22-250 finish type at $7.50 each. Other sizes later. Driver Equipment Co., 1152 Valencia St, San Francisco 10, Calif.

YOUR MAUSER OR ENFIELD CONVERTED TO .270 or 30-06. Custom stocking, bluing and general gunsmithing done expertly, reasonably, and promptly. Write to Ben's Gun Shop, Ambler, Penna.

CUSTOM GUNSMITHING: SCOPE MOUNTING, bluing, repairing, bolt altering, custom stocking of rifles and shotguns, Military rifle remodeling, barrel fitting. (Write for information about the new English-End Lock scope mount, featuring quick detachable scope to allow use of iron sights). W. H. English, 3445 Calif. Avenue, Seattle 6, Washington.

FIRST CLASS REBLUING AT REASONABLE prices, work guaranteed. Write for further information. G. F. Snider, Box 213, Connersville, Ind.

HAVE YOUR RIFLE EQUIPPED WITH THE shotgun type thumb safety for the fall hunt. Crosshairs installed in scopes. Bolt handles altered and polished $7.50. Special mounts made up for foreign scopes. H. B. Anderson, 1203 Broadway, Yakima, Washington.

.22 CALIBER POST-WAR BULLETS, 45, 50, 55 gr. $2.60 per C. Dupont powders $1.60 lb. White line recoil pads, $3.00. Rubber butt plates $2.00. 1½" sling straps $1.95, ⅞ $2.25. Swivels 60¢ pr. Q.D. $1.65. Stith Q.D. for K2.5 on M70 $17.50. K2.5 $38.50, K-4 $44.00. U top or side mounts $5.75. Aurand's, 229 E. 3rd St., Lewistown, Penna.

.22 CAL. BULLETS

Lubri-Kote Jackets, 42, 50, 55, 60 grain; 42, 50 grain Round or Sharp Point, $2.25 per hundred, postpaid; 65 grain 227, $2.50. Sample Free. MILO HILL Caledonia, Ohio

★ ★

JAEGER SPORTING RIFLES

Springfield or Mauser Action

REBARRELING

QUICK DETACHABLE TELESCOPE MOUNTS

PAUL JAEGER

Jenkintown *SPORTING ARMS* **Pennsylvania**

★ ★

A FINER TOOL FOR HANDLOADERS!

MEEPOS SPEEDLUBE

Accurate • Clean • Speedy

BULLET SIZING & LUBRICATING

Just put bullets in top, they drop out at the bottom. With your order include bullet make and number, or sample bullet if possible.

PRODUCERS OF *Timesaving* TOOLS

THE MEEPOS CO.
312 South Main Street
Los Angeles 7, Calif.

$18.50 GUARANTEED
Die Set Included
EXTRA DIES . . $2.50
BULLET PUNCH . 75¢

You can put this space to work *for you* regularly, at a very reasonable cost —only $11.90 per month for 12 consecutive insertions. Rates are slightly higher on an every-other-month schedule, or for single insertions. The circulation of THE AMERICAN RIFLEMAN is now over 105,000 copies monthly —and increasing steadily. We are producing splendid results for dozens of advertisers who use this size space right along. Send us "copy" instructions now, for the next issue.

A One-Inch Display "Ad"

FAST SCHMIDT'S ADJ. INLETTING RASP with large and small cutting heads, $3.50. Speed action for the 98 Mauser, light pin, fast spring, short falls, $6.50 send bolt only. HI-TENSILE springs of finest square stock, Mauser, Springfield Enfield, $1.00. Quantity discount to gunsmiths. Schmidt & Davis, 3347 San Fernando Road, Los Angeles 41, California.

HIGH QUALITY CUSTOM GUNSMITHING, custom made sights and mounts. Custom Varmint rifles made to order. Paul O. Gottschall, R.D. #4, Box 193, Salem, Ohio.

MILITARY CONVERSIONS, STOCKING, BLUing, scope, sight fitting and all general repairs. Weaver, Unertl and Redfield sights. Echo scope mounts. Russell and Meeker, 4301 West 210th, Cleveland, Ohio.

HANDLOADING HORNETS, LOVELLS, M. BEE'S .38 Specials, Reloading your cases. Write for prices. Acme Loading Service. J. F. Burns, 63 Fairmont Ave, Worcester, Mass.

SPECIALIZING IN REBLUING, FACTORY method, expert gunsmiths in charge. Years of experience. Would welcome dealers inquiries. For information write. Charles J. McConeghy, 2203 Highland Avenue, Utica 4, N. Y.

CHAMBERING REAMERS FOR STANDARD calibers. Wildcat reamers made to order. Elmer Key, Chelsea, Okla.

CUSTOM LOADING 2R, .218-BEE, M. BEE, HORnet, K-Hornet, .22-250, .220 and .250-3000. Need cases badly, also primers, trade. Hansons Custom Loading, Edwardsville, Kansas.

NOW YOU CAN STOP!

Women buy run-of-the-mill creams and lotions . . . we men pilfer them. But, **never again!** We're thru with "creations" . . . now that a thoughtful chemist designed a skin protection especially **for MEN!** A genius named it

MAS-Q-LIN

Stops sun- and windburn; softens . . . smooths . . . comforts . . . Winter and Summer. The after-shave revelation. $1.

Gun in Perfect Condition

after 90 days in salt water! "Never happened before in 35 years experience," says Puget Sound Sportsman. **MICRONOIL GUN-LUBE** is the last word in lubricants and rust inhibitors. Unconditionally guaranteed. Users enthused. **¼ pt., $1. Ask dealer . . . or write**

PROTECTIVE COATINGS, INC.
Box 3985 AR, DETROIT 27, MICH.

MACHINE TOOLS AND GUNSMITHS' EQUIPMENT

DRILLS
PRESSES
DIES
REAMERS
TAPS
ARBORS
CUTTERS

We can supply your gun shop needs with fine tools made by leading U. S. mfrs. Mail orders promptly attended to. We invite you to send us your wants, or for catalogs on items of equipment interested in.

Driver Equipment Co.
1152 Valencia St.
San Francisco, Calif.

ELECTRIC TOOLS
GRINDERS
FILES
MICROMETERS
INLETTING TOOLS
BUFFERS
VISES

FREE *Lawrence* SADDLE CATALOG

● Pictures, descriptions, prices on Lawrence saddles . . . standard equipment of Western riders since 1857. Write for your free copy.

SOLD ON EASY TERMS

THE GEORGE LAWRENCE CO., PORTLAND, ORE.

MILLER BEDFORD at New London, Ohio— where the unusually rare gun is commonplace. Our stock is amazing.

SOUTH BEND LATHES

The versatility of South Bend Lathes permits them to handle many kinds of exacting precision work. Special attachments are available to broaden their range of work and increase their profit-making possibilities. Lathes are made with 9", 10", 13", 14½", and 16" swings. Write today for free Catalog 100-D which shows the complete line of lathes and attachments.

"HOW TO RUN A LATHE" Send for this 128-page book on the operation and care of metal working lathes. Contains 345 illustrations. Size 5-1/8" x 8". Price 25c postpaid.

LATHE BUILDERS SINCE 1906

SOUTH BEND LATHE WORKS

452 E. Madison St., South Bend 22, Indiana

SHOOT

your Gun Trades this way!

We buy, sell or trade, and carry one of the largest stocks of modern guns in New England.

Try us! List for 10¢.

THE GREEN STORE

S. A. GOSS K. H. GREEN

North Haverhill, N. H.

Now for EVERY WORK SHOP!

NEW Invention Electroplates by BRUSH

Easy to Plate CHROMIUM GOLD, SILVER, NICKEL, COPPER

. . . For Pleasure and Profit!

If you have a workshop—at home or in business—you need this new Warner Electroplater. At the stroke of an electrified brush, you can electroplate models and projects—you can replate worn articles, faucets, tools, fixtures, silverware, etc. with a durable, sparkling coat of metal . . . Gold, Silver, Chromium, Nickel, Copper or Cadmium. Method is easy, simple, quick. Everything furnished—equipment complete, ready for use. *By doing a bit of work for others, your machine can pay for itself within a week.* So make your shop complete by getting a Warner Electroplater right away. Send today for FREE SAMPLE and illustrated literature. ACT AT ONCE!

- MODEL MAKERS
- MAINTENANCE
- HOBBY SHOPS
- HOME SHOPS
- SALVAGE PARTS

WARNER ELECTRIC CO., DEPT. J65 853 N. Wells St., Chicago 10, Illinois

FREE Details & Sample!

WARNER ELECTRIC CO., 853 N. Wells, Chicago 10, Dept. J65

Gentlemen: Send Free Sample and Details to:

Name_____

Address_____

City_____ Zone_____ State_____

Mill-Rose GUN BRUSHES and RODS

Combination Gun Cleaning Rods for Rifles. All-Calibre Revolver Rods. Shotgun Rods. Swivel handle. All-Duralumin. Jointed. Gun Cleaning Brushes for Rifles, Revolvers, Shotguns in all sizes — Phosphor Bronze, Bristle or Nylon.

THE MILL-ROSE CO.

1987 East 59th St.

Cleveland 3

Fine Guns NEED FINE OIL!

Oil your Gun *with* 3-IN-ONE

When thoroughly cleaned, leave a thin film of Light Weight 3-IN-ONE on all parts and you're ready for the next shoot.

3-IN-ONE Oil

JOE PFEIFER

CUSTOM BARREL SERVICE

All popular and wildcat calibers

7837 Sencola Roscoe 3, Cal.

GUNSMITHING, REBLUING, CUSTOM STOCKS, scope and metallic sights mounted. Member. A. D. Smith, Kerhonkson, New York. 10-46

SUKALLE BARRELS ARE BACK AGAIN. HEAT-treated Chrome Moly steel barrels fit to your action, rifle or foreign rifle. 22-250, .220 Swift, .256 Newton, .257 Remington, .250-3000, .270 WCF., 30-06, .300 H&H, .30 Newton, .35 Newton. On barrel jobs we can take case of scope mounting, bolt alterations and safeties, Lyman and Redfield sights, our style ramps, Mauser forged steel guards streamlined makes commercial job. Scopes, mounts and sights in stock. Enfields changed to cock on opening of bolt, guards straightened, ears milled off to fit sight or scope mount. No barrel blanks furnished. W. A. Sukalle, 1120 E. Washington St., Phoenix, Arizona.

SEND US YOUR GUNS FOR EXCELLENT BLUing, military rifle conversion. Bob Sands, 211 Montrose Avenue, Syracuse 4, N. Y.

.375 MAGNUMS AND OTHER CALIBERS ON your action. Custom stocking. Weaver scopes, Redfield sights and mounts. Orahood Gun Shop, Ordway, Colorado.

LET US BLUE YOUR GUNS, ALL WORK guaranteed. Send only parts to be blued for quicker service. Wayne Garner, Wilmington, Illinois.

FOR SPORTSMEN ONLY

TILDEN SUPERIOR MOUNTS are truly superior. Very low, light, strong, heat-treated thruout, expertly designed, and nicely finished. Scope may be quickly dismounted by loosening one screw (with coin); no loose parts; specially designed clamp and windage screws, never a broken or a lost one. Positive re-zero. Made for 70 & 54 Win. Rem, 30's and 720, Mauser, Enfield, Springfield, 03 Remington, and certain others, including some 22's. For Alaskan K2.5 and K4, 330 Weaver, Texan, G88, Noske, and several European Scopes. We specialize in mounting and bluing of large European scopes, also the lightweight models. Mounts are only $16.00 for such scopes as Alaskan, Noske, Weaver, etc.

TILDEN SIDE LEVER SAFETY for Model 70, also adaptable to Model 54. $3.60 postpaid, or installed in your 70 bolt. We also have a new Mauser Scope Safety. Write. Approx. 1,000 cleaning patches for 30 Cal. for $1.00 postpaid.

Some Alaskan and Weaver Scopes for immediate delivery. Bolt handles expertly altered. Enfields remodeled and re-blued. Metal work only.

TILDEN MFG. CO., 2750 N. Speer Blvd., Denver 11, Colo.

A NEW LINE OF BISHOP STOCKS WILL BE manufactured by an entirely new system of manufacturing and shaping. This new principle will give the shooter a stock completely matched as to shape. Outside of stock finished very smooth. Inside cuts for action and barrel will be completely finished. No hand fitting necessary. Shape of stock has also been improved. Improved tenite fitting. At present the stocks will be made only for the M98 Mauser, U. S. 1917 Enfield and 1903 Springfield. More will be added to this list in time. Price of $16.50 will include stock kit of stock finish, sand paper, and complete instructions for finishing. Orders accepted now. Shipment will be made in about six weeks. Detailed description on request. E. C. Bishop & Son, Warsaw, Missouri. tf

DUE TO A RECENT EXPANSION WE ARE ABLE to accept a limited amount of conversion work—.220 Rocket, .257, .270 and .300 Weatherby Magnums. We can convert your present rifle or build one completely. Send for detailed information. Weatherby's Custom Sporting Goods, 8823 Long Beach Blvd, South Gate, California.

TOO LATE TO CLASSIFY

.22 WINCHESTER, 52 ACTION, VERY GOOD, very accurate, Dubiel H. B. Beautiful custom black walnut stock, cheek rest, scope blocks, Lyman extension rear, Redfield front, Hart trigger action, sling. First money order $130.00. Richard R. Pfeifer, 8000 S. W. Capitol Hill Road, Portland 1, Oregon.

REMINGTON 30S SPORTER; ZEISS ZEILklein scope in G. & H. side-bracket mounts. Excellent to perfect. Shot little; few loaded shells. $150.00 complete. Al Ellinger, Springwater, N. Y.

FOR SALE OR TRADE: BEAUTIFUL .22 CAL. Mauser bolt action 5 shot, 2 clips, excellent, $50.00. Trade 1 case 12 gauge sizes 5's to 9's Express and standard loads for case 28 gauge 2¾ length 7½, 8 or 9's. P. R. Lilly, Valdosta, Ga.

WANTED FOR CASH: PERFECT ZEISS ZIELvier 4X Scope. Marion Houston, 27 Country Gardens, Mattoon, Illinois.

RANGER (MARLIN) 12 GAUGE OU, MF, EXcellent, $50.00. 200 rounds M1918 .30-'06, no splits, $6.00. 500 decapped resized cases, .22 Hornet, $10.00. H. C. Robinson, Rt. 1, Athens, Louisiana.

GERMAN AUTOMATIC RIFLE K43, NEW, $70.00. Scope and mounts, excellent, $45.00. WANT—Tokarev Rifle magazine; 7.62 cartridges. J. DiCresce, 5534 Cooper, Detroit, Michigan.

FOR SALE: WALTHER P. P. .22, VERY GOOD, $50.00. Colt Banker's Special .22 nickel, excellent, $60.00. Luger 9mm., very good, $45.00. Colt Commercial .45 Cal. Auto, excellent, 150 shells, Heiser holster, $75.00. Colt .25 Auto, very good, $30.00. Member. F. K. Wylie, 1522 E. Market, New Albany, Ind.

KILBOURN 22 K-HORNET

Increases velocity 25%, 50 to 75 yds. more range, $5.00 rechambers your Hornet; $2.00 alters Magazine. We also chamber for K-Lovell, K-Zipper and K-220 Swift. Sporter stocks for Mauser, Enfield and Springfield, $35.00 up.

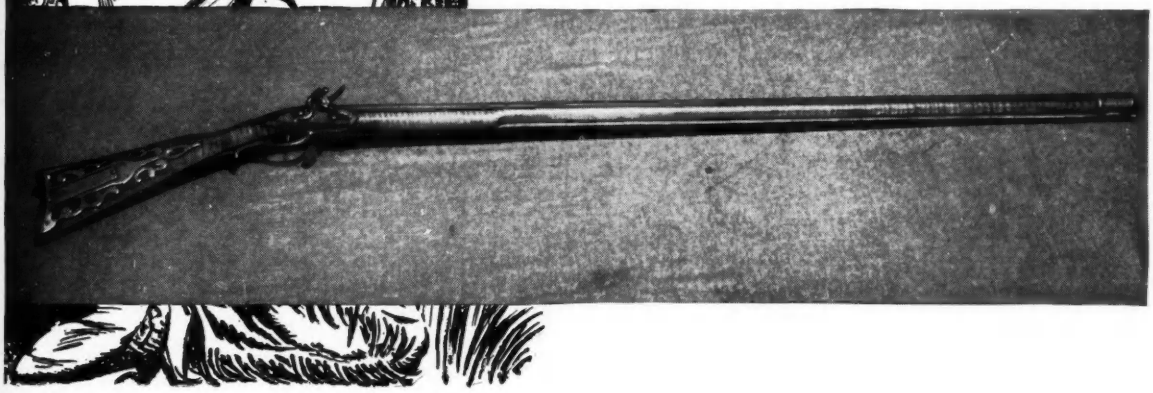
LYSLE D. KILBOURN Whitesboro, N. Y.

GRAND OLD FAVORITES

THE "KENTUCKY"

... an early favorite with American Sportsmen!

Backwoods sharpshooters used the "Kentucky" flintlock for protection and hunting game for food. This rifle, introduced in Pennsylvania in 1725, was the most accurate of its day. Gas-tight bullet patch and long octagonal barrel made full use of slow-burning powder, allowed precision aiming. This "Kentucky" is about .48 caliber, 61 inches long, barrel 44¾ inches.



THE FAMED "Kentucky" rifle was a long-time favorite of American settlers and sportsmen. In 1802, Du Pont Sporting Powders joined the "Kentucky" and soon became another shooting favorite. Together, the "Kentucky" flintlock and Du Pont Powder contributed much to make hunting and shooting the grand old sport we know today.

Help protect game . . . support your national and local organizations for game conservation and restoration.

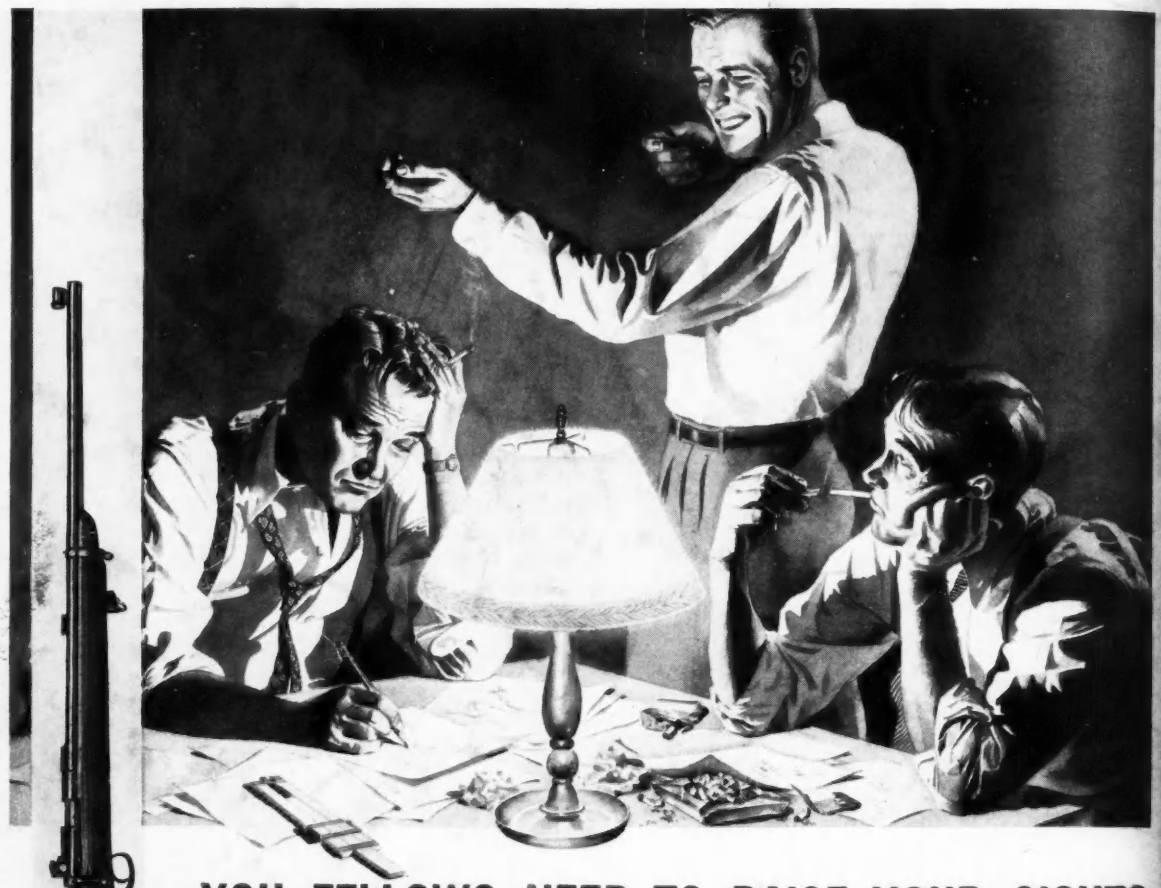
E. I. DU PONT DE NEMOURS & CO. (Inc.)
Explosives Department
Wilmington 98, Delaware

DU PONT
REG. U. S. PAT. OFF.

DU PONT SPORTING POWDERS

World Famous Since 1802

PRESS OF JUDD & DETWEILER, INC., WASHINGTON, D. C.



YOU FELLOWS NEED TO RAISE YOUR SIGHTS

WORLD'S FINEST TARGET RIFLE

Standing upright on the left is a Winchester Model 52. In important small bore target competitions—it has hung up more "firsts" than all other 22's combined.

"You've been wrestling with problems until you've just about knocked yourselves out. You need rest and something else to think about. How about joining me on the target range? Small bore rifle shooting is more than a sport. It's a tonic. You will come back with a fresh point of view."

You know he's talking sense. Why not talk some of it to *your* friends? Let them shoot your Winchester and try the grand sport of target shooting.

A FINE TARGET RIFLE—ATTRACTIVELY PRICED

The Winchester Model 75, shown above, very much like the superb Model 52 in general design. It has the same length barrel and same length of trigger pull (from butt of stock to trigger). However, it's about 1 lb. 6 oz. lighter—making it a fine arm for beginners and younger shooters. CARTRIDGES? When you need every possible advantage to win, choose Winchester EZXS 22 Long Rifle cartridges. Winchester Repeating Arms Co., New Haven, Conn., Division of Olin Industries, Inc.

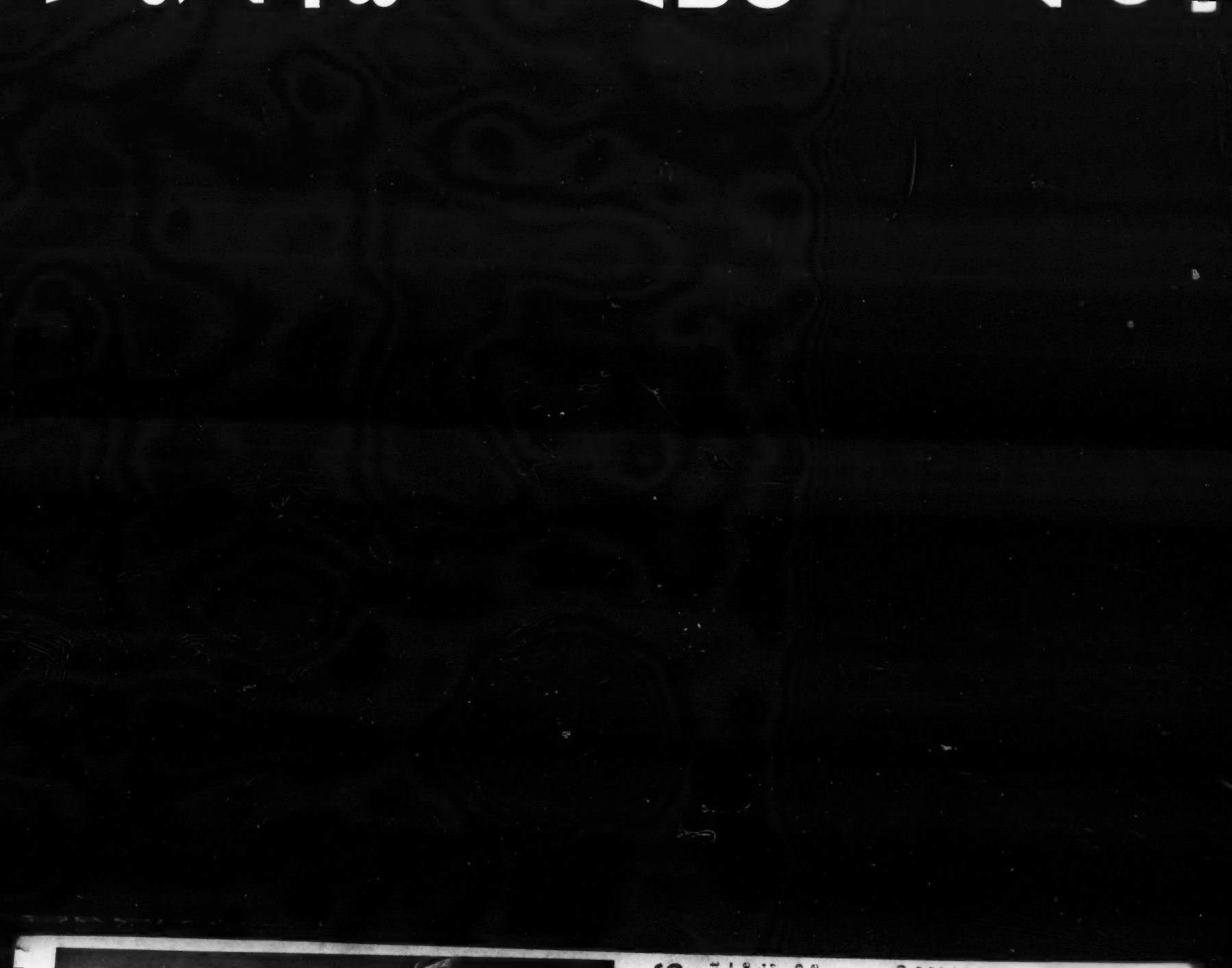
HELP...
SALVAGE LEAD

Clean out your "backstops" and *sell the scrap lead to your local scrap metal dealer*. That will help everybody because today, supplies of lead are so short that cartridge production must be curtailed.

WINCHESTER
TRADE MARK

DIVISION OF OLIN INDUSTRIES INC.

RIFLES • CARTRIDGES • SHOTGUNS • SHOTSHELLS • FLASHLIGHTS • BATTERIES • ROLLER SKATES



SOUTH BEND LATHES

The versatility of South Bend Lathes permits them to handle many kinds of exacting precision work. Special attachments are available to broaden their range of work and increase their profit-making possibilities. Lathes are made with 9", 10", 13", 14½", and 16" swings. Write today for free Catalog 100-D which shows the complete line of lathes and attachments.

"HOW TO RUN A LATHE"
Send for this 128-page book on the operation and care of metal working lathes. Contains 368 illustrations. Size 5-1/8" x 8". Price 25¢ postpaid.

LATHE BUILDERS SINCE 1906

SOUTH BEND LATHE WORKS
452 E. Madison St., South Bend 22, Indiana

SHOOT

your Gun Trades this way!

We buy, sell or trade, and carry one of the largest stocks of modern guns in New England.

Try us! List for 10¢.

THE GREEN STORE

S. A. GOSS K. H. GREEN
North Haverhill, N. H.

Now for EVERY WORK SHOP!

NEW Invention **Electroplates by BRUSH**

Easy to Plate CHROMIUM
GOLD, SILVER, NICKEL, COPPER
. . . For Pleasure and Profit!

If you have a workshop—at home or in business—you need this new Warner Electroplater. At the stroke of an electrified brush, you can electroplate models and projects—you can replate worn articles, faucets, tools, fixtures, silverware, etc. with a durable, sparkling coat of metal . . . Gold, Silver, Chromium, Nickel, Copper or Cadmium. Method is easy, simple, quick. Everything furnished—equipment complete, ready for use. *By doing a bit of work for others, your machine can pay for itself within a week.* So make your shop complete by getting a Warner Electroplater right away. Send today for FREE SAMPLE and illustrated literature. ACT AT ONCE!

WARNER ELECTRIC CO., DEPT. J6S
663 N. Wells St., Chicago 10, Illinois

- MODEL MAKERS
- MAINTENANCE
- HOBBY SHOPS
- HOME SHOPS
- SALVAGE PARTS

FREE Details & Sample!

WARNER ELECTRIC CO., 663 N. Wells, Chicago 10, Dept. J6S
Gentlemen: Send Free Sample and Details to:

Name_____

Address_____

City_____ Zone_____ State_____

Mill-Rose GUN BRUSHES and RODS

Combination Gun Cleaning Rods for Rifles. All-Calibre Revolver Rods. Shotgun Rods. Swivel handle. All-Duralumin. Jointed. Gun Cleaning Brushes for Rifles, Revolvers, Shotguns in all sizes — Phosphor Bronze, Bristle or Nylon.

THE MILL-ROSE CO.
1987 East 59th St.
Cleveland 3

Fine Guns NEED FINE OIL!

Oil your Gun *with* 3-IN-ONE

When thoroughly cleaned, leave a thin film of Light Weight 3-IN-ONE on all parts and you're ready for the next shoot.

3-IN-ONE Oil

JOE PFEIFER
CUSTOM BARREL SERVICE
All popular and wildcat calibers
7837 Sancola Roscoe 3, Cal.

GUNSMITHING, REBLUING, CUSTOM STOCKS, scope and metallic sights mounted. Member. A. D. Smith, Kerhonkson, New York. 10-46

SUKALLE BARRELS ARE BACK AGAIN. HEAT-treated Chrome Moly steel barrels fit to your action, rifle or foreign rifle. 22-250, .220 Swift, .256 Newton, .257 Remington, .250-3000, .270 WCF., 30-06, .300 H&H, .30 Newton, .35 Newton. On barrel jobs we can take care of scope mounting, bolt alterations and safeties, Lyman and Redfield sights, our style ramps, Mauser forged steel guards streamlined makes commercial job. Scopes, mounts and sights in stock. Enfields changed to cock on opening of bolt, guards straightened, ears milled off to fit sight or scope mount. No barrel blanks furnished. W. A. Sukalle, 1120 E. Washington St., Phoenix, Arizona.

SEND US YOUR GUNS FOR EXCELLENT BLUing, military rifle conversion. Bob Sands, 211 Montrose Avenue, Syracuse 4, N. Y.

.375 MAGNUMS AND OTHER CALIBERS ON your action. Custom stocking. Weaver scopes, Redfield sights and mounts. Orahood Gun Shop, Ordway, Colorado.

LET US BLUE YOUR GUNS, ALL WORK guaranteed. Send only parts to be blued for quicker service. Wayne Garner, Wilmington, Illinois.

FOR SPORTSMEN ONLY

TILDEN SUPERIOR MOUNTS are truly superior. Very low, light, strong, heat-treated thruout, expertly designed, and nicely finished. Scope may be quickly dismounted by loosening one screw (with coin); no loose parts; specially designed clamp and windage screws, never a broken or a lost one. Positive re-zero. Made for 70 & 54 Win., Rem. 30's and 720, Mauser, Enfield, Springfield, 99 Savage, and certain others, including some 22's. For Alaskan K2.5 and K4, 330 Weaver, Texan, G55, Noske, and several European Scopes. We specialize in mounting and bluing of large European scopes, also the lightweight models. Mounts are only $16.00 for such scopes as Alaskan, Noske, Weaver, etc.

TILDEN SIDE LEVER SAFETY for Model 70, also adaptable to Model 54. $3.50 postpaid, or installed in your 70 bolt. We also have a new Mauser Scope Safety. Write. Approx. 1,000 cleaning patches for 30 Cal. for $1.00 postpaid.

Some Alaskan and Weaver Scopes for immediate delivery. Bolt handles expertly altered. Enfields remodeled and re-blued. Metal work only.

TILDEN MFG. CO., 2750 N. Speer Blvd., Denver 11, Colo.

A NEW LINE OF BISHOP STOCKS WILL BE manufactured by an entirely new system of manufacturing and shaping. This new principle will give the shooter a stock completely matched as to shape. Outside of stock finished very smooth. Inside cuts for action and barrel will be completely finished. No hand fitting necessary. Shape of stock has also been improved. Improved tenite fittings. At present the stocks will be made only for the M98 Mauser, U. S. 1917 Enfield and 1903 Springfield. More will be added to this list in time. Price of $16.50 will include stock kit of stock finish, sand paper, and complete instructions for finishing. Orders accepted now. Shipment will be made in about six weeks. Detailed description on request. E. C. Bishop & Son, Warsaw, Missouri. tf

DUE TO A RECENT EXPANSION WE ARE ABLE to accept a limited amount of conversion work—.220 Rocket, .257, .270 and .300 Weatherby Magnums. We can convert your present rifle or build one completely. Send for detailed information. Weatherby's Custom Sporting Goods, 8823 Long Beach Blvd, South Gate, California.

TOO LATE TO CLASSIFY

.22 WINCHESTER, 52 ACTION, VERY GOOD, very accurate, Dubiel H. B. Beautiful custom black walnut stock, cheek rest, scope blocks, Lyman extension rear, Redfield front, Hart trigger action, sling. First money order $130.00. Richard R. Pfeifer, 8000 S. W. Capitol Hill Road, Portland 1, Oregon.

REMINGTON 30S SPORTER; ZEISS ZEIL-klein scope in G. & H. side-bracket mounts. Excellent to perfect. Shot little; few loaded shells. $150.00 complete. Al Ellinger, Springwater, N. Y.

FOR SALE OR TRADE: BEAUTIFUL .22 CAL. Mauser bolt action 5 shot, 2 clips, excellent, $50.00. Trade 1 case 12 gauge sizes 5's to 9's Express and standard loads for case 28 gauge 2⅞ length 7½, 8 or 9's. P. R. Lilly, Valdosta, Ga.

WANTED FOR CASH: PERFECT ZEISS ZIEL-vier 4X Scope. Marion Houston, 27 Country Gardens, Mattoon, Illinois.

RANGER (MARLIN) 12 GAUGE OU, MF, EX-cellent, $50.00. 200 rounds M1918 .30-'06, no splits, $6.00. 500 decapped resized cases, .22 Hornet, $10.00. H. C. Robinson, Rt. 1, Athens, Louisiana.

GERMAN AUTOMATIC RIFLE 'K43, NEW. $70.00. Scope and mounts, excellent, $45.00. WANT—Tokarev Rifle magazine; 7.62 cartridges. J. DiCresce, 5534 Cooper, Detroit, Michigan.

FOR SALE: WALTHER P. P. .22, VERY GOOD, $50.00. Colt Banker's Special .22 nickel, excellent, $60.00. Luger 9mm., very good, $45.00. Colt Commercial .45 Cal. Auto, excellent, 150 shells. Heiser holster, $75.00. Colt .25 Auto, very good, $30.00. Member. F. K. Wylie, 1522 E. Market, New Albany, Ind.

KILBOURN 22 K-HORNET

Increases velocity 25%, 50 to 75 yds. more range. $5.00 rechambers your Hornet; $2.00 alters Magazine. We also chamber for K-Lovell, K-Zipper and K-220 Swift. Sporter stocks for Mauser, Enfield and Springfield, $35.00 up.

LYSLE D. KILBOURN Whitesboro, N. Y.